

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE <div style="text-align: center;">J</div>		PAGE OF PAGES <div style="text-align: center;">1   55</div>	
2. AMENDMENT/MODIFICATION NO. <div style="text-align: center;">0002</div>		3. EFFECTIVE DATE <div style="text-align: center;">27-Aug-2004</div>		4. REQUISITION/PURCHASE REQ. NO. <div style="text-align: center;">W16ROE-4085-7150</div>		5. PROJECT NO.(If applicable)	
6. ISSUED BY <div style="text-align: center;">CODE</div> USA ENGINEER DISTRICT, NEW YORK ATTN:CENAN-CT ROOM 1843 26 FEDERAL PLAZA NEW YORK NY 10278		7. ADMINISTERED BY (If other than item 6) <div style="text-align: center;">CODE</div> <div style="text-align: center; font-weight: bold;">See Item 6</div>					
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code)				<input checked="" type="checkbox"/> 9A. AMENDMENT OF SOLICITATION NO. W912DS-04-B-0015			
				<input checked="" type="checkbox"/> 9B. DATED (SEE ITEM 11) 05-Aug-2004			
				10A. MOD. OF CONTRACT/ORDER NO.			
				10B. DATED (SEE ITEM 13)			
CODE		FACILITY CODE					
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input checked="" type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input checked="" type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offer must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods: (a) By completing Items 8 and 15, and returning <u>3</u> copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. ACCOUNTING AND APPROPRIATION DATA (If required)							
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.							
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.							
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(B).							
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:							
D. OTHER (Specify type of modification and authority)							
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) IAW FAR PART 15.206 THIS SOLICITATION IS AMENDED TO INCORPORATE THE FOLLOWING CHANGES:  1. TO EXTEND THE BID OPENING DATE; 2. TO INCOPORATE THE ATTACHED SPECIFICATION CHANGES (SEE SF20 CONTINUATION PAGE); 3. TO INCORPORATE A REVISED BIDDING SCHEDULE (SEE SECTION 00010). 4. TO INCORPORATE THE REVISED WAGE RATE DETERMINATION DECISION FOR THIS EFFORT (SEE SECTION 00800). ALL OTHER TERMS AND CONDITIONS SHALL REMAIN THE SAME AND UNCHANGED. THIS AMENDMENT SHALL BE ATTACHED TO THE SPECIFICATIONS AND SHALL BE INCORPORATED THEREOF. NOTE: Bidders must acknowledge receipt of this amendment by the date specified in the solicitation (or as amended) by one of the following methods: in the space provided on the SF1442, by separate letter, or by telegram, or by signing block 15 below. FAILURE TO ACKNOWLEDGE AMENDMENTS BY THE DATE AND TIME SPECIFIED MAY RESULT IN REJECTION OF YOUR BID IN ACCORDANCE WITH THE LATE BID, LATE MODIFICATIONS OF BIDS OR LATE WITHDRAWAL OF BIDS (FAR14.304).							
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)			
				TEL: _____ EMAIL: _____			
15B. CONTRACTOR/OFFEROR  _____ (Signature of person authorized to sign)		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA  BY _____ (Signature of Contracting Officer)		16C. DATE SIGNED  27-Aug-2004	

## SECTION SF 30 BLOCK 14 CONTINUATION PAGE

**SUMMARY OF CHANGES**

## SECTION SF 30 - BLOCK 14 CONTINUATION PAGE

The following have been added by full text:

AMENDMENT 0002

IFB NO. 12DS-04-B-0015

AMENDMENT NO. 0002

Bid Opening hour and date are rescheduled from 7 September 2004 at 1100 hours local time to 13 September 2004 at 1300 hours local time.

1. The following change shall be made to the plans:

Plans

1. Delete plan sheets 8, 9, 21, 23, 25, 28, 31, 32, 37, and 49 and replace with the attached revised sheets.
  2. Plan Sheets 4,5, and 6. Revise note regarding construction fence limit from "Construction Fence Within Work Limits. STA 37+10 to 56+00" to "Construction Fence Within Work Limits."
  3. Plan Sheet 4. Delete note "Extend Existing Pavement to New Bulkhead, from STA 37+00± to 39+00±. See Typical Pavement Detail on this Sheet."
  4. Plan Sheet 6. Add Item Number 3 to Ship Tie Downs. Add arrow from note "Remove and Replace Ship tie Downs" to tie down at STA 52+10.
  5. Plan Sheet 7. Revise note at STA 57+89 as follows:  
New 36-inch RCP and junction chamber.  
Remove existing headwall.  
Extend pipe through new bulkhead.  
See Sheet 34.
  6. Plan Sheet 26. Revise stationing of Connection Detail, from STA. 45+24 to STA 45+71.33.
2. The following change shall be made to the specifications:

Specifications

1. Section 00800, para. 46. Delete in its entirety and replace with the following:  
In conjunction with the siltation control measures (Section 02275), excavation of contaminated material (Section 02226) will be restricted to times of low tide on exposed mud flats unless a cofferdam system or other dewatering system is used.

2. Section 00900, Wage Rates. Delete in its entirety and replace with the attached revised Wage Rates.
3. Section 00904, List of Items.
  - a. Add the following items:
    - Item No. 9c, Crushed Stone
    - Item No. 28a, Precast Concrete Lagging.
  - b. Delete the following items:
    - Item No. 22e, Flap Valves 60" dia.
    - Item No. 22f, Flap Valves 72" dia.
  - c. Revise the following item:
    - Item No. 3, Change from "Removal and Salvage of Historic Building Materials" to "Remove and Replace Ship Tie Downs"
4. Section 01330-13. Delete submittal register for Section 02462 and replace with the attached revised submittal register..
5. Section 01502, Stream Diversion and Dewatering, para. 1.1.1. Delete 1<sup>st</sup> sentence.
6. Section 02275, shall be revised as follows:
  - a. Para. 3.1.1, Floating Turbidity Barrier. Delete 1<sup>st</sup> two sentences and replace with the following:

"The floating turbidity barrier shall be installed at a location chosen by the Contractor in accordance with the Standards for Soil Erosion and Sediment Control in New Jersey and the Project's requisite Soil Erosion and the Sediment Control Permit from the Hudson, Essex and Passaic Soil Conservation District, and the location shall be approved by the Contracting Officer."
  - b. Para. 3.1.1, Floating Turbidity Barrier. Delete last two sentences in their entirety.
  - c. Para. 3.3, Removal and Disposal. Delete 1<sup>st</sup> sentence and replace with the following:

"The floating turbidity barrier shall remain in place until the end of the contract or until the Contracting Officer's Representative directs its removal."
7. Section 02300A shall be revised as follows:
  - a. Para. 1.8, Utilization of Excavated Materials. Delete 1<sup>st</sup> sub-paragraph in its entirety and replace with the following: "Unsatisfactory materials removed from excavations shall be disposed of in designated waste disposal or spoil areas. Satisfactory material removed from excavations may be used, insofar as practicable, for trench backfill. No satisfactory excavated material shall be wasted without specific written authorization. Unsatisfactory and excess satisfactory material shall be disposed of offsite at an approved disposal site, in accordance with all federal, state, and local regulations. No excavated material shall be disposed of to obstruct the flow of any stream, endanger a partly finished structure, impair the efficiency, or appearance, of any structure, or be detrimental to the completed work in any way."
  - b. Para. 3.1, Excavation. Delete 1<sup>st</sup> sub-paragraph in its entirety and replace with the following: "The Contractor shall perform excavation of every type of material

encountered within the limits of the project to the lines, grades, and elevations indicated and as specified on the plans, including areas to be over-excavated. Grading shall be in conformity with the typical sections shown and the tolerances specified in paragraph FINISHING. Satisfactory excavated materials shall be transported to, and placed in, fill or embankment within the limits of the work. Unsatisfactory materials encountered within the limits of the work shall be excavated below grade and replaced with satisfactory materials as directed. Such excavated material and the satisfactory material ordered as replacement shall be included in excavation. Unsatisfactory and excess satisfactory material shall be disposed of offsite at an approved disposal site, in accordance with all federal, state, and local regulations. During construction, excavation and fill shall be performed in a manner and sequence that will provide proper drainage at all times.”

- c. Para. 3.2, Opening and Drainage of Excavation. Delete 2<sup>nd</sup> sub-paragraph in its entirety and replace with the following: “The Contractor shall schedule work to coincide with advantageous low tide cycles **unless a cofferdam system or other dewatering system is used**. Excavation shall not proceed in areas which are inundated. Work shall proceed in only those areas during a time at which the areas are drained.”
- d. Para. 3.5, Backfill. Delete 3<sup>rd</sup> sentence in its entirety and replace with the following: “Compaction requirements for backfill materials shall also conform to the applicable portions of paragraphs PREPARATION OF GROUND SURFACE; Section 02630 STORM-DRAINAGE SYSTEM; and Section 02222 EXCAVATION, TRENCHING, AND BACKFILLING FOR UTILITIES SYSTEMS.”
- e. Para. 3.8, Subgrade. Delete paragraph in its entirety.

- 8. Section 02462 shall be revised as follows: Delete in its entirety and replace with the attached revised specification Section 02462.

3. The following are responses to questions received from bidders (FOR INFORMATIONAL PURPOSES ONLY).

Question No. 1: Reference Amendment #1 p. 6 of 12, Item No. 0003 – Option #1. Please confirm that the steel sheetpile is to be installed by others as noted on Contract plan sh. 2 of 62.

Response: Yes, steel sheetpile to be installed by others between STA 45+71.33 and 52+24.70.

Question No. 2: Reference Amendment #1 p. 7 and 8 of 12, Item No.’s 0004, 0004AA and 0004AB. Are item No.’s 0004AA and 0004AB part of Option #2 Item 0004? Please clarify the extent of work between Item No.’s 0004 and 0004AA. Which amount(s) do we enter for Total Option #2 on p. 11 of 12?

Response: Item 0004 is the sum of sub-Item No.’s (i.e. 0004AA, 0004AB, etc.). This sum is the amount to be entered for Total Option #2 (this item has now been re-numbered to CLIN 0006, and its respectively SLIN(s)).

Question No. 3: Reference Amendment #1 p. 9 and 10 of 12. Are Item No.'s 0007AA and 0007AB part of Option #5 Item 0007? Please clarify extent of work for Item No. 0007. Which amount(s) do we enter for Total Option #5 on p. 11 of 12?

Response: Item 0007 is the sum of sub-Item No.'s (i.e., 0007AA, and 0007AB). This sum is the amount to be entered for Total Option #5 on p. 11 of 12 (this item has now been re-numbered to CLIN 0009, and its respectively SLIN(s)).

Question No. 4: Ref. plan sheet 23/62. The section/elevation for sta. 57+50 to sta. 59+71.65 shows bottom of wall elevation at -24.0. However, plan sheet 22/62 shows bottom of wall to be -36.0. Please clarify.

Response: See revised Plan Sheet 23 included in this amendment.

Question No. 5: Ref. plan sheet 23/62. The section/elevation for sta. 57+50 to sta. 59+71.65 shows bottom of wall elevation at -24.0 and bottom of concrete lagging at -11.0. However, on plan sheet 28/62 the elevation view shows bottom of wall to be -36.0 and bottom of precast lagging at -29.2. Please clarify.

Response: See revised Plan Sheets 23 and 28 included in this amendment.

Question No.6: Does the sheet piling get coated?

Response: Sheet piling does not get coated. See Ref. in § 02463 to ASTM A690 steel and in Section 09900 para. 3.2.1.

Question No. 7: Ref. plan sheet 31/62. For the compression/tension piles, does only the tapered steel portion get filled with concrete or is the straight pipe section included as well?

Response: Complete length of tension and compression pile(s) = tapered + straight section; i.e., straight section is to be filled with concrete.

Question No. 8: Ref. typical section – grading (37+10 to 59+71.65) on plan sheets 13-16/62. What is the proposed thickness of crushed stone located below bottom of cap? What is the required excavation width for the crushed stone at subgrade? What is the required slope needed to match existing ground line? Is the crushed stone required at the bottom of cap in areas of fill? – see cross section 53+00 on sh. 15/62.

Response: Thickness of crushed stone will vary with soil conditions at time of excavation; the area in question is within the Passaic River. Excavation limits are as-required, to facilitate construction. Slope and/or grade in front of bulkhead will be as necessary to meet existing ground line. Crushed stone is required as necessary to provide a suitable work surface/form when pouring the concrete bulkhead encasement.

Question No. 9: Please confirm the steel sheet piling and tiebacks will be supplied and installed by others for bid option #1.

Response: Yes, steel sheetpile and tiebacks to be installed by others for Option 1.

Question No. 10: Please confirm the steel sheet piling and tieback material is to be supplied under this contract and installed by others for option #3.

Response: Yes, Option #3 only includes supplying the sheetpile and tieback material.

Question No. 11: Please confirm that the steel sheet piling and tiebacks get installed (no material) for option #4?

Response: Yes, the sheetpile and tiebacks get installed (no material) for option #4.

Question No. 12: I would still like to request a 2 (two) week extension to the bid date. There is a lot of estimating and contacts with sub contractors to be done. Because this is a LUMP SUM project we have to make sure everything is accounted for in our calculations. This will require detailed work to be done while making site visits.

Response: See revision to bid opening hour and date included in this amendment

Question No. 13: Please confirm that "ALL" work is to be done "In The Dry" as stated in paragraph 1.1.1 of Section 01502, Stream Diversion and Dewatering. Is this meant to cover the concrete curtain wall on the face of the new sheeting? Is it also meant to cover all the work along the shoreline to the east of the new sheet piling where the COIR Fiber Log and other misc. grading work is to be done?

Response: See revision to Section 01502 included in this amendment.

Question No. 14: Paragraph #46 on page 24 of Spec section 00800 indicates that "...excavation of contaminated material (Section 02226) will be restricted to times of low tide on exposed mud flats." When would we be permitted to excavate contaminated materials that are never exposed on a mud flat due to the elevation of the bottom being below MLW?

Response: Section 00800, para. 46 also covers contaminated material below MLW.

Question No. 15: Why would this restriction be necessary since the previously cited paragraph would require a cofferdam to be placed around the work and the cofferdam to be dewatered? Are you sure that the cofferdam requirement applies to this work???

Response: See revision to Section 01502 included in this amendment.

Question No. 16: Would it be possible to arrange a Site Visit at a time of LOW TIDE at which representatives of the Corps and the Designer's office could be present to answer questions?

Response: Potential bidders may visit the site on their own. A Corps' sponsored site visit is not scheduled.

Question No. 17: Sheet #24 of the drawings indicates that the sheeting between sta's 50+24.7 and 57+50 is CAZ18 box piles, however sheet #25, Option 1 Cap Detail shows a 200' area between Sta's 50+24.7 and 52+24.7 to be AZ 26. What sheeting section is required for Bid Options 3 & 4 in this 200' area? I am confused by the differing sections.

Response: See revised Plan Sheet 25 included in this amendment.

Question No. 18: Drawing sheets 4, 5, & 6 show construction fencing from Sta's 37+10 to 56+00 yet the construction fencing appears to be clearly shown to the Eastern limits of the project at sta 92+00 with the exception that it is not shown on sheet #8 for no apparent reason. Please clarify the required limits of the construction fencing.

Response: See revisions to Plan Sheets 4,5,6, and 8 included in this amendment.

Question No. 19: Is it permissible to substitute a deeper single section of steel sheet piling which has the same or higher strength properties as the box piling specified?

Response: Bid should be based on information in the bid documents.

Question No. 20: Drawing #21 shows the extension of an existing 6" subdrain line from Sta 37+10 to the new storm drain at Sta 38+05. This is not shown on plan drawing #4 so I cannot tell where this work is located and under what conditions it is to be done. Can you furnish the necessary plan drawing for this work?

Response: See revised Plan Sheet 21 included in this amendment.

Question No. 21: I am very confused by the bid schedule. Am I correct in assuming that Bid Items 0002 & 0003 are "Breakout" prices of work that is to be included in Bid Item 0001? Or are these two items not supposed to be included in Item 0001?

Response: The Total Base Bid is the sum of CLIN(s) 0001, 0002, 0003 and 0004. Option #1 has been re-numbered as CLIN 0005.

Question No. 22: I have the same confusion with Bid Items 0004, & 0004AA & 0004AB. Is the work covered by 0004AA & 0004BB supposed to be included in 0004 or not? And, are these items supposed to be included with Item 0001?

Response: See response to Question No. 2.

Question No.23: Is the work covered by Items 0005 & 0006 also to be included in Bid Item 0001?

Response: No, Items 0005 & 0006 are not to be included in Bid Item 0001. However, previous number Items (CLIN(s)) 0005 and 0006 are now re-numbered as CLIN(s) 0007 and 0008.

Question No.24: Is the work covered by Items 0007AA & 0007AB to be included in Item 0007?

Response: Yes but they are re-numbered as SLIN(s) 0009AA and 0009AB..

Question No.25: Drawing sheet #21 indicates that the bulkhead wall from Sta 37+10 to Sta 40+00 is "Steel Sheet Piling Z Section", yet on drawing #23, Section A-A shows that the wall from Sta 37+10 to Station 37+50 is constructed from HZ575A piles & concrete lagging. How can this 40' section be constructed from "Steel Sheet Piling Z Section" and HZ575A piles & lagging at the same time?

Response: See revised Plan Sheet 21 included in this amendment.

Question No.26: Section 09900 of the specs (Paintings and Coatings) para 3.6 on p. 6 (Painting Schedules) indicates that ALL ferrous metals are to be coated with 3 different types of primers. I do not understand this schedule. Are all 3 primers required on all ferrous metal surfaces? There is no "-" or "-" shown so one would have to conclude that all 3 primers are required.

Response: The painting schedule states "Ferrous metal *unless otherwise specified...*" §09900 para 3.2.1. states "Do not apply shop coat to steel H-Piles and sheeting elements consisting of Marine Grade A690 steel." § 05120, para 2.7 "Paint shall conform to SSPC Paint 25. Steel members to be encased in concrete shall receive a shop prime coat only." Interior surfaces of steel tapered piles and their attached straight pipe sections do not have to be coated.

Question No.27: Am I to assume that the steel sheet piling as well as the HZ piles and tapered steel piles are to be coated with this system of primers since they are all "Ferrous Metals"? That would be highly unusual. Normally, piling materials are coated with a Coal Tar Epoxy or a Fusion Bonded Epoxy such as 3M ScotchKote Fusion Bond Epoxy Powdered Coating 206N. Is the interior surface of the tapered pipe piling and the AZ Box piling to be coated? If so, how is this to be accomplished?

Response: See response to Question 26.

Question No.28 Section 02463A of the specs (Steel Sheet Piling) para 3.1.5 on p. 5 indicates that some sheeting will have to be pulled and redriven, "AS DIRECTED". Unless the number of sheets required to be pulled is specified on this LUMP SUM contract, we have no way to determine the required scope of work in this area. How many sheets will you require that we pull? Possibly you could add a pay item for this work. That way you just pay for the sheets as they are required to be pulled and redriven by the resident Eng'r.

Response: See revision to Bid Schedule included in this amendment.

Question No.29: have the following question in regards to Amendment 0001 where it states "Section 00100, Instructions to Bidders. Delete in its entirety."

Is this Amendment referring to delete "Section 00100 – Bidding Schedule/Instructions to Bidders" (Page 10 of 88 to Page 13 of 88) or is this Amendment referring to delete "Section 00100 Instructions to Bidders" (Page 00100-1), which is listed further in the specifications? Please Clarify.

Response: Amendment 0001, which states "Section 00100, Instructions to Bidders. Delete in its entirety", is referring to Section 00100 Instructions to Bidders" (Page 00100-1).

Question No. 30:In addition, the weekend leading into the bid date of September 7, 2004 is Labor Day Weekend. A lot of us here at Schiavone Const. Co., including myself, will be away that weekend (September 4<sup>th</sup>, 5<sup>th</sup>, and 6<sup>th</sup>). We respectfully request an extension of time from the original bid date of September 7, 2004 to September 13/14, 2004.

Response: See revision to bid opening hour and date included in this amendment.

Question No. 31: Paragraph 1.1, Section 02390, states: "The Contracting Officer shall have the right to increase or decrease the number of anchors to be installed and to change the locations and elevations at which the anchors are to be installed." Please clarify how the Contractor is to be compensated for any revisions to quantities, shown on the plans, due to changes in scope?

Response: This would be negotiated under the Changes Clause of the contract.

Question No. 32: Paragraph 1.1, Section 02456A, states: "The Contracting Officer shall have the right to increase or decrease the length of piles to be furnished and installed by changing the foundation pile locations or elevations, requiring the installation of additional piles, or requiring omission of piles from the requirements shown and specified." Please clarify how the Contractor is to be compensated for any revisions to quantities, shown on the plans, due to changes in scope?

Response: This would be negotiated under the Changes Clause of the contract.

Question No. 33: Item 3 Specification page 00904-2, Removal and Salvage of Historic Building Materials" is included on this List of Items. No information is included in these documents for this scope of work. Please clarify.

Response: Item 3 includes [three ship tie downs to be removed and replaced. See revision to Plan Sheet 6 and List of Items included in this amendment.](#)

Question No. 34: Item 9c, within the Typical Section, on drawing 16, has not been included in the List of Items, Specification page 00904-2. Should this item been included on specification page 00904?



Response: Yes, see revisions to Section 00904 included in this amendment.

Question No. 35: Item 28A, within the Section Sta. 57+50 to Sta. 59+71+65 on drawing 23, has not been included in the List of Items, Specification page 00904-3. Should this item been included on specification page 00904?

Response: Yes, see revisions to Section 00904 included in this amendment.

Question No. 36: “Typical Section – Grading 37+10 to 59+71.65” detail on drawing 16 notes the following “Excavate as required. Return ground line to existing. See note 1.” Can surplus suitable materials from on-site excavation be reused to “Return Ground Line to Existing”, or will off-site borrow soil be required?

Response: Refer to Section 02300A, para. 1.8.

Question No. 37: The description on the Solicitation Contract Form for Items 0002, 0004AB and 0007AB includes “...treatment of contaminated river sediment material from below mean high tide...” This description on the Solicitation Contract Form was not included for Option #1 (Item 0003). Should the Solicitation Contract Form for Option # 1 also have the same description as Items 0002, 0004AB and 0007AB? Please clarify.

Response: No, there should be no contaminated material for Option #1.

Question No. 38: The description on the Solicitation Contract Form for Items No. 0002, 0004AB, and 0007AB includes “Excavation and treatment of contaminated river sediment material from below mean high tide”. Is the cost to transport and dispose of contaminated soil excluded from this proposal, and paid by others?

Response: Transport and disposal of contaminated material are to be included in Bid Item No. 0002, 0004AB, and 0007AB. Because of the latest revision, SLIN 0004AB is now re-numbered as SLIN 0006AB, and 0007AB is now re-numbered to SLIN 0009AB.

Question No. 39: The specifications instruct the Contractor to treat all excavated soil below the mean high water table as contaminated, thus disposed off-site. Does this requirement for off-site disposal include excavated soil throughout the site, such as soil excavated for drainage pipes and structures?

Response: Refer to Section 01351, 1.8.1.1 Site Information. All excavated material on-site shall be tested by the contractor to determine appropriate re-use on-site or disposal off-site. Soil testing conducted in 1995 for upland areas above MHW indicated levels of metals and semi-volatile organic compounds that exceed NJDEP Soil Cleanup Criteria.

Question No. 40: Specification Section 01410 - Page 3 - “1.4 Permits” mentions a specification Section 00902. Additionally, this section is listed on the Main Table of Contents. This section was not included with the documents. Please provide Section 00902.

Response: Section 00902, Water Quality Certification, shall be issued as an amendment.

Question No. 41: Specification section 02220 - Page 4 – “3.5.2 Unsalvageable Material” states “Materials shall be disposed of off site, at approved landfills, in accordance with all Federal, State and local regulations.” Does concrete rubble require disposal in a landfill, or can this material be disposed at a licensed recycling facility?

Response: Disposal of concrete rubble at a licensed recycling facility is permissible upon receipt of approval of the action from the NJDEP. The contractor should prepare a request for the disposal method to the NJDEP Division of Solid and Hazardous Waste, Bureau of Landfill and Recycling Management, the selected recycling facility and the NJDEP Office of Dredging and Sediment Technology.

Question No. 42: Specification section 02230 – Page 1 – “1.2.1 Clearing” states; “All objectionable material including stones, boulders, tires, trash, and any other debris as directed by the Contracting Officer shall also be cleared.” Additionally, a large amount of concrete rubble lines the riverbank, both above and below the shoreline. Since clearing and concrete debris are not shown on the plans, it is impossible to quantify the magnitude of these debris that will require removal. Therefore, we request the Solicitation Contract Form be modified to include a unit price pay for this scope of work.

Response: Note 3 on Plan Sheets 4 through 10 indicates the area to be cleared.

Question No. 43: Specification Section 02275 – Page 3 states “The floating turbidity barrier shall be located as shown on the plans.”, yet the location of turbidity barrier is not reflected on the plans, please provide location(s).

Response: See revisions to Section 02275 included in this amendment.

Question No. 44: Paragraph 3.1, on page 02300A – 5 states ”Surplus satisfactory excavated material not required for fill or embankment shall be disposed of in areas approved for surplus material storage or designated waste areas. Unsatisfactory excavated material shall be disposed of in designated waste or spoil areas.” Please identify the locations of these waste or spoil areas.

Response: See revision to Section 02300 included in this amendment.

Question No. 45: Paragraph 3.1.1.5, on page 02222 states ”Soil material excavated shall be tested for chemical constituents to determine the suitability of the material for re-use as backfill or to determine the proper disposal of the material at an approved landfill.” Since it is impossible to determine the quantities of soil that will be spoiled on-site or requiring off-site disposal, we request the Solicitation Contract Form be modified to include a unit price pay for this scope of work.

Response: To be addressed in a future amendment.

Question No. 46: Paragraph 3.8.1, on page 02300A – 8, states, “Subgrade shall be shaped to line, grade, and cross section, and compacted as specified. This operation shall include plowing, disking, and any moistening or aerating required to obtain specified compaction. Soft or otherwise unsatisfactory material shall be removed and replaced with satisfactory excavated material, or other approved material as directed” Since it is impossible to determine the undercut requirements of soil, we request the Solicitation Contract Form be modified to include a unit price pay for this scope of work.

Response: See revision to Section 02300A included in this amendment.

Question No. 47: The List of Items, on specification pages 00904 – 3, includes flap valves for various storm pipes (Item #22a – 22h). The list includes 60” and 72” flap valves. These valves are not shown on the plans. Additionally, there is an 84” storm pipe, shown on the plans, that discharge into the river. The plans or the List of Items do not show a flap valve being required, but one may be needed. Please clarify.

Response: Flap valves are only to be used on Outlets through the bulkhead. Items 22e and 22f have been deleted from the List of Items per revisions to Section 00904 included in this amendment.

Question No. 48: Sheet 7 states that at Station 57+89, install new 36” RCP and junction chamber, remove existing headwall and extend pipe through new headwall. But on Sheet 41 (Outfall Structures), Station 57+89 is not identified on the headwall table as requiring a head wall. Additionally, no detail has been included on the plans for this structure. Please clarify as to whether a new headwall is to be constructed at this location. If a headwall is required, please provide details of the structure.

Response: See revision to Plan Sheet 7 included in this amendment.

Question No. 49: Please advise as to whether our understanding of the Solicitation Contract Form forwarded with Amendment number 1 is correct as follows:

- a. The amount to be entered for Item number 0004 – Option #2 shall be the sum of Items #0004AA and #0004AB which shall also be the same as Total Option #2 on page 11 of 12.
- b. The amount to be entered for Item number 0007 – Option #5 shall be the sum of Items #0007AA and #0007AB which shall also be the same as Total Option #5 on page 11 of 12.

Response: Yes, this is correct, however, Item number 0004 is now Item number 0006, including its respective sub-items, and Item number 0007 is now Item number 0009. including its respective sub-items.

Question No. 50: Due to the complexity of the project, reduced staff as a result of summer vacations, and the high volume of work out to bid by other agencies, we request that the bids due date be postponed for two (2) weeks to September 21, 2004. Such a postponement will enable us to provide the Corps with a more complete and responsive proposal.

Response: See revision to bid opening hour and date included in this amendment.

Question No. 51: Ref. connection detail – Sta. 45+24 on plan sheet 26/62. Should the station be 45+71.33 instead of 45+24?

Response: Yes, see revision to Plan Sheet 26 included in this amendment.

Question No. 52: On the land side there are excavations that will occur below the MHT, i.e. junction chambers, inlets A + B, reinforced concrete culvert pipe, reinforced concrete drainage pipe, option #2 deadman for A-frame anchorage...Is the portion of material generated from below the MHT for this work considered contaminated?

Response: Refer to Section 01351, 1.8.1.1 Site Information. All excavated material on-site shall be tested by the contractor to determine appropriate re-use on-site or disposal off-site. Soil testing conducted in 1995 for upland areas above MHW indicated levels of metals and semi-volatile organic compounds that exceed NJDEP Soil Cleanup Criteria.

Question No. 53: On sheet 49/62 there are sections shown referring to a mean higher high water of +4.0'. To compute the contaminated material do we use +4.0' or the MHT of +3.4' shown on the cross sections?

Response: Refer to Cross Section Sheets 13 through 20, Note 1 which states materials excavated from below MHT (elevation +3.4) are classified as contaminated. The mean higher high water (MHHW) elevation of +4.0 feet depicted on the typical sections on sheet 49 relates to the establishment of vegetation, not to the extent of contaminated material.

Question No. 54: Please confirm that options #3 and #4 do not include the proposed reinforced concrete cap including studs.

Response: Options # 3 and #4 do not include the proposed reinforced concrete cap including studs.

Question No. 55: Can the junction chambers be precast?

Response: No, refer to Section 03301A, par 1.1.

Question No. 56: Ref. plan sheet 4/62. Please provide limits of existing pavement extension.

Response: See revision to Plan Sheet 4 included in this amendment.

Question No. 57: Ref. plan sheet 9/62. Can the limits of removal and replacement of existing sidewalk be better defined?

Response: See revised Plan Sheet 9 included in this amendment.

Question No. 58: Ref. 29, 31 and 32 / 62, station 37+10 to 39+60 – option #2 work. Bulkhead detail A on sh. 32/62 shows AZ26's along the proposed bulkhead line. However, on sheet 44/62 the plan view for the future outfall at sta. 37+18 shows combination steel pile with steel sheet piling Z section. It appears this combination sheeting continues beyond the horizontal limits of the future outfall. Please define the horizontal limits for the AZ26's and for the combination sheeting.

Response: See revised Plan Sheets 23 and 31 included in this amendment.

Question No. 59: Ref. 25/62. What size bar anchor diameter is required for 160 KIP anchor capacity?

Response: There is no required diameter; simply that the bar be the appropriate grade of steel to adequately handle the loading specified and to fit the configuration indicated.

4. This amendment shall be attached to the specifications and shall be a part thereof.

SECTION 00010 - SOLICITATION CONTRACT FORM

The required response date/time has changed from 07-Sep-2004 11:00 AM to 13-Sep-2004 11:00 AM.

CLIN 0003

This CLIN has been renumbered to CLIN 0005.

CLIN 0004

This CLIN has been renumbered to CLIN 0006.

SUBCLIN 0004AA

This SUBCLIN has been renumbered to SUBCLIN 0006AA.

SUBCLIN 0004AB

This SUBCLIN has been renumbered to SUBCLIN 0006AB.

CLIN 0005

This CLIN has been renumbered to CLIN 0007.

CLIN 0006

This CLIN has been renumbered to CLIN 0008.

The CLIN type priced has been deleted.

The CLIN extended description has changed from SHEETPILE FOR STATION 50+24.70 THROUGH 52+24.70, LABOR ONLY, IF EXERCISED. to WORK ASSOCIATED WITH STATIONS 86+25 THROUGH 92+13.59.

The pricing detail quantity 1.00 has been deleted.

The unit of issue Lump Sum has been deleted.

CLIN 0007

This CLIN has been renumbered to CLIN 0009.

The unit of issue Lump Sum has been deleted.

SUBCLIN 0007AA

This SUBCLIN has been renumbered to SUBCLIN 0009AA.

SUBCLIN 0007AB

This SUBCLIN has been renumbered to SUBCLIN 0009AB.

CLIN 0011

This CLIN has been renumbered to SUBCLIN 0008AA.

The CLIN description DELETED has been deleted.

The CLIN extended description has changed from DELETED to SHEETPILE FOR STATION 50+24.70 THROUGH 52+24.70, LABOR ONLY, IF EXERCISED..

The option status has changed from No Status to Option.

CLIN 0003 is added as follows:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0003		2,310	Square Foot		

FFP  
PULLED STEEL SHEET PILING

---

NET AMT

FOB: Destination

CLIN 0004 is added as follows:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0004		2,310	Square Foot		

FFP  
RE-DRIVEN STEEL SHEET PILING

---

NET AMT

FOB: Destination

SUBCLIN 0006AC is added as follows:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0006AC		2,560	Square Foot		
OPTION	FFP PULLED STEEL SHEET PILING				
					<hr/>
				NET AMT	

FOB: Destination

SUBCLIN 0006AD is added as follows:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0006AD		2,560	Square Foot		
OPTION	FFP RE-DRIVEN STEEL SHEET PILING				
					<hr/>
				NET AMT	

FOB: Destination

SUBCLIN 0008AB is added as follows:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0008AB		640	Square Foot		
OPTION	FFP PULLED STEEL SHEET PILING				
					<hr/>
				NET AMT	

FOB: Destination

SUBCLIN 0008AC is added as follows:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0008AC		640	Square Foot		

OPTION

FFP  
RE-DRIVEN STEEL SHEET PILING

---

 NET AMT

FOB: Destination

## INSPECTION AND ACCEPTANCE

The following Acceptance/Inspection Schedule was added for CLIN 0003:

INSPECT AT	INSPECT BY	ACCEPT AT	ACCEPT BY
N/A	N/A	N/A	Government

The following Acceptance/Inspection Schedule was added for CLIN 0004:

INSPECT AT	INSPECT BY	ACCEPT AT	ACCEPT BY
N/A	N/A	N/A	Government

The following Acceptance/Inspection Schedule was added for SUBCLIN 0006AC:

INSPECT AT	INSPECT BY	ACCEPT AT	ACCEPT BY
N/A	N/A	N/A	Government

The following Acceptance/Inspection Schedule was added for SUBCLIN 0006AD:

INSPECT AT	INSPECT BY	ACCEPT AT	ACCEPT BY
N/A	N/A	N/A	Government

The following Acceptance/Inspection Schedule was added for SUBCLIN 0008AB:

INSPECT AT	INSPECT BY	ACCEPT AT	ACCEPT BY
N/A	N/A	N/A	Government

The following Acceptance/Inspection Schedule was added for SUBCLIN 0008AC:

INSPECT AT	INSPECT BY	ACCEPT AT	ACCEPT BY
N/A	N/A	N/A	Government

The following have been modified:

SECTION 00010 (REVISED)



ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001	BULKHEAD CONSTRUCTION WORK FFP ALL CONSTRUCTION WORK ASSOCIATED WITH THE BULKHEAD, APPURTENANCES, AND WETLAND FOR STATIONS 52+24.70 THROUGH 86+25, COMPLETE, IAW THE ATTACHED PLANS AND SPECIFICATIONS, EXCLUDING CLIN(S) 0003 AND 0004. PURCHASE REQUEST NUMBER: W16ROE-4085-7150	1	Lump Sum		

---

NET AMT

FOB: Destination

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0002	RIVER EXCAVATION WORK FFP ALL WORK ASSOCIATED WITH THE EXCAVATION AND TREATMENT OF CONTAMINATED RIVER SEDIMENT MATERIAL FROM BELOW MEAN HIGH TIDE, FROM STATIONS 52+24.70 THROUGH 86-25, COMPLETE, IAW THE ATTACHED PLANS AND SPECIFICATIONS, EXCLUDING CLIN(S) 0003 AND 0004. PURCHASE REQUEST NUMBER: W16ROE-4085-7150	1	Lump Sum		

---

NET AMT

FOB: Destination

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0003		2,310	Square Foot		
	FFP PULLED STEEL SHEET PILING				

---

NET AMT

FOB: Destination

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0004		2,310	Square Foot		
	FFP RE-DRIVEN STEEL SHEET PILING				

---

NET AMT

FOB: Destination

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0005		1	Lump Sum		
OPTION	OPTION #1 FFP ALL WORK ASSOCIATED WITH THE CONCRETE CAP AND DRAINAGE FOR STATIONS 45+71.33 THROUGH 52+24.70, COMPLETE, IAW ATTACHED PLANS AND SPECIFICATIONS, IF EXERCISED.				

---

NET AMT

FOB: Destination

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0006 OPTION	OPTION #2 FFP ALL WORK ASSOCIATED WITH STATIONS 37+10 THROUGH 45+71.33, COMPLETE, IF EXERCISED				

---

NET AMT

FOB: Destination

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0006AA OPTION	FFP ALL WORK ASSOCIATED WITH THE CONSTRUCTION OF BULKHEAD AND APPURTENANCES FOR STATIONS 37+10 THROUGH 45+71.33, COMPLETE, IAW ATTACHED PLANS AND SPECIFICATIONS, IF EXERCISED.	1	Lump Sum		

---

NET AMT

FOB: Destination

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0006AB OPTION	FFP ALL WORK ASSOCIATED WITH THE EXCAVATION AND TREATMENT OF CONTAMINATED RIVER SEDIMENT MATERIAL FROM BELOW MEAN HIGH TIDE FOR STATIONS 37+10 THROUGH 45+71.33, IF EXERCISED.	1	Lump Sum		

---

NET AMT

FOB: Destination

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0006AC		2,560	Square Foot		
OPTION	FFP PULLED STEEL SHEET PILING				

---

NET AMT

FOB: Destination

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0006AD		2,560	Square Foot		
OPTION	FFP RE-DRIVEN STEEL SHEET PILING				

---

NET AMT

FOB: Destination

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0007		1	Lump Sum		
OPTION	OPTION #3 FFP SHEETPILE FOR STATION 50+24.70 THROUGH 52+24.70, MATERIAL ONLY, IF EXERCISED.				

---

NET AMT

FOB: Destination

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0008					
OPTION	OPTION #4				
	FFP				
	WORK ASSOCIATED WITH STATIONS 86+25 THROUGH 92+13.59				

---

NET AMT

FOB: Destination

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0008AA		1	Lump Sum		
OPTION					
	FFP				
	SHEETPILE FOR STATION 50+24.70 THROUGH 52+24.70, LABOR ONLY, IF EXERCISED.				

---

NET AMT

FOB: Destination

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0008AB		640	Square Foot		
OPTION					
	FFP				
	PULLED STEEL SHEET PILING				

---

NET AMT

FOB: Destination

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0008AC		640	Square Foot		
OPTION	FFP RE-DRIVEN STEEL SHEET PILING				

---

NET AMT

FOB: Destination

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0009					
OPTION	OPTION #5 FFP ALL WORK ASSOCIATED WITH STATIONS 86+25 THROUGH 92+13.59, COMPLETE, IF EXERCISED				

---

NET AMT

FOB: Destination

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0009AA			Lump Sum		
OPTION	FFP ALL WORK ASSOCIATED WITH STREAMBANK STABILIZATION, FROM STATIONS 86+25 THROUGH 92+13.59, COMPLETE, IAW ATTACHED PLANS AND SPECIFICATIONS, IF EXERCISED				

---

NET AMT

FOB: Destination

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0009AB OPTION	FFP EXCAVATION AND TREATMENT OF CONTAMINATED RIVER SEDIMENT MATERIAL FROM BELOW MEAN HIGH TIDE, FROM STATIONS 86+25 THROUGH 92+13.59, COMPLETE, IAW THE ATTACHED PLANS AND SPECIFICATIONS, IF EXERCISED.	1	Lump Sum		

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NET AMT

FOB: Destination

TOTAL BASE BID (CLIN(S) 0001 THRU 0004): \_\_\_\_\_

TOTAL OPTION # ONE (1) (CLIN 0005) : \_\_\_\_\_

TOTAL OPTION # TWO (2) (CLIN 0006): \_\_\_\_\_

TOTAL OPTION # THREE (3) (CLIN 0007): \_\_\_\_\_

TOTAL OPTION # FOUR (4) (CLIN 0008): \_\_\_\_\_

TOTAL OPTION # FIVE (5) (CLIN 0009): \_\_\_\_\_

TOTAL BASE BID INCLUDING ALL OPTIONS: \_\_\_\_\_

#### SECTION 00700 - CONTRACT CLAUSES

The following have been deleted:

52.252-2	Clauses Incorporated By Reference	FEB 1998
252.247-7023	Alt III Transportation of Supplies by Sea (May 2002) Alternate III	MAY 2002

#### SECTION 00800 - SPECIAL CONTRACT REQUIREMENTS

The following have been modified:

WAGE RATE DETERMINATION

Davis-Bacon Act wage decision NJ030003 modification 9, dated 8/13/04 , affecting (Greenbrook Rignwall; Explosive R&D, Picatinny; Minish Contract #4

follows below and supersedes only previously furnished subject decision for this(ese) project(s). If bids for a project were opened prior to this modification date, the wage rate change does not apply.

Please remember that in negotiated procurements, the wage rates in effect on the date of contract award (not at proposal due date or FPR date) are the ones to be incorporated in the contract..

Also note the "10-day rule": For contracts entered into pursuant to competitive bidding procedures, 29 CFR 1.6(c)(3)(i) requires contracting agencies to accept modifications to wage determinations, notice of which is published in the Federal Register less than 10 days before bid opening, unless the agency finds that there is not sufficient time to notify bidders of the change. A report of the finding must be included in the contract file and submitted to the Wage-Hour Administrator of DOL upon request.

Solicitations affected by the 90-day rule are not listed above: "90-day" rule: 29 CFR 1.6 ( c ) (3)(iv), as set forth in FAR 22.404-6(b)(6) provides that if a contract to which a general wage determination has been applied is not awarded within 90 days after bid opening, any modification to that wage determination published prior to contract award shall be effective unless the agency obtains an extension of this 90-day period from the Administrator, US Department of Labor

GENERAL DECISION: **NJ20030003** 08/13/2004 NJ3

Date: August 13, 2004

General Decision Number: **NJ20030003** 08/13/2004

Superseded General Decision Number: NJ020003

State: New Jersey

Construction Types: Building, Heavy and Highway

Counties: Bergen, Essex, Hudson, Hunterdon, Middlesex, Morris, Passaic, Somerset, Sussex, Union and Warren Counties in New Jersey.

BERGEN, ESSEX, HUDSON, HUNTERDON (Remainder), MIDDLESEX (Remainder), MORRIS, PASSIAC, SOMERSET (Remainder), SUSSEX, UNION, & WARREN (Remainder) COUNTIES:

BUILDING CONSTRUCTION PROJECTS (does not include residential construction consisting of single family homes and apartments up to and including 4 stories, does not include Hunterdon or Somerset Counties for building construction only)



## HEAVY AND HIGHWAY CONSTRUCTION PROJECTS

Modification Number	Publication Date
0	06/13/2003
1	12/19/2003
2	01/23/2004
3	02/27/2004
4	03/05/2004
5	03/19/2004
6	05/07/2004
7	06/04/2004
8	07/02/2004
9	08/13/2004

BOIL0028-001 08/01/2003

	Rates	Fringes
Boilermaker.....	\$ 34.63	20.45

---

CARP0006-001 05/01/2004

BERRGEN (East of Hackensack River including but not limited to Cliffside, Coytesville, Edgewater, Fairview, Fort Lee, Grant Wood, Leonia, Palisades Park, and Ridgefield Twps), AND HUDSON (East of the Hackensack River) COUNTIES

	Rates	Fringes
Carpenter.....	\$ 33.38	15.02
Millwright.....	\$ 33.07	44%+.21

---

CARP0015-001 05/01/2004

BERGEN COUNTY (Remainder)

	Rates	Fringes
Carpenter.....	\$ 33.38	15.02
Millwright.....	\$ 33.07	44%+.21

---

CARP0031-002 05/01/2004

HUNTERDON (Starting at the South of the town of Frenchtown on the Delaware River, thence following the line in the center of the road to Bapistown to Croton to the City of Flemington to Flemington Junction to Three Bridges, tehnce following the Somerset County line Northward, all territory South of this line including the City of Flemington) AND SOMERSET (all territory South of a line beginning at Armwell on the County line to Zion to Fairview to Dutchtown to Plainsville to Bell Mead to Griggstown to the Delaware and Raritan Canal) COUNTIES

	Rates	Fringes
Carpenter.....	\$ 33.38	15.02

-----  
 CARP0041-002 05/01/2004

ESSEX (Millburn Twp), MIDDLESEX, MORRIS, SOMERSET  
 (Municipalities of Greenbrook, North Plainfield, Watchung, and  
 all communities East of King George's Road), SUSSEX AND UNION  
 COUNTIES

	Rates	Fringes
Carpenter & Insulator.....	\$ 33.38	15.02
Millwright.....	\$ 33.07	44%+.21

-----

CARP0099-001 05/01/2004

	Rates	Fringes
Lather.....	\$ 33.38	15.02

-----

CARP0124-001 05/01/2004

BERGEN (City of Garfield and Boroughs of Lodi and Wallington),  
 AND PASSAIC COUNTIES

	Rates	Fringes
Carpenter.....	\$ 33.38	15.02
Millwright.....	\$ 33.07	44%+.21

-----

CARP0399-001 05/01/2004

WARREN COUNTY

	Rates	Fringes
Carpenter & Insulator.....	\$ 33.38	15.02
Millwright.....	\$ 33.07	44%+.21

-----

CARP1342-001 05/01/2004

ESSEX, AND HUDSON (West of Hackensack River)

	Rates	Fringes
Carpenter.....	\$ 33.38	15.02
Millwright.....	\$ 33.07	44%+.21

-----

CARP1456-001 05/01/2003

	Rates	Fringes
Diver Tender.....	\$ 28.82	26.41
Diver.....	\$ 38.28	26.41

-----

CARP2212-001 11/01/2003

## BERGEN, ESSEX, HUDSON, &amp; PASSAIC COUNTIES

	Rates	Fringes
Soft Floor Layer.....	\$ 32.22	44%+.21
-----		
ELEC0102-001 06/02/2003		

## MORRIS, PASSAIC, SUSSEX, UNION, AND WARREN COUNTIES

	Rates	Fringes
Line Construction:		
Cable Splicers.....	\$ 42.13	42.5%
Groundmen.....	\$ 22.98	42.5%
Lineman & Equipment		
Operators.....	\$ 38.30	42.5%
-----		
ELEC0102-002 05/31/2004		

## MORRIS, PASSAIC, SUSSEX, UNION, AND WARREN COUNTIES

	Rates	Fringes
Cable splicer.....	\$ 44.52	45%
Electrician.....	\$ 40.47	45%
-----		
ELEC0164-001 08/15/2000		

## BERGEN, ESSEX, AND HUDSON COUNTIES

	Rates	Fringes
Line Construction:		
Cable Splicer.....	\$ 38.89	41%
Groundman.....	\$ 20.66	41%
Lineman, Welder, X-Ray		
Technician, Equipment		
Repairman, & Equipment		
Serviceman.....	\$ 34.42	41%
-----		
ELEC0164-002 05/31/2004		

## BERGEN, ESSEX, AND HUDSON COUNTIES

	Rates	Fringes
Cable splicer.....	\$ 46.76	45.5%
Electrician.....	\$ 41.10	45.5%
-----		
ELEC0262-002 08/15/1993		

MIDDLESEX COUNTY (Area North and West of a line following the Philadelphia and Reading Railroad East from the Raritan River to Dismal Road, Northeast on Dismal Road to Park Avenue, North on Park Avenue to Lehigh Valley Railroad, and Northeast along

that railroad to the Union County line)

	Rates	Fringes
Electrician.....	\$ 25.92	6.09+20%
-----		
ELEC0262-006 11/30/1994		

MIDDLESEX COUNTY (Area North and West of a line following the Philadelphia and Reading Railroad East from the Raritan River to Dismal Road, Northeast on Dismal Road to Park Avenue, North on Park Avenue to the Lehigh Valley Railroad, and Northeast along that railroad to the Union County line)

	Rates	Fringes
Line Construction:		
Groundmen.....	\$ 21.06	3.76+11.7%
Linemen, Cable Splicers.....	\$ 22.87	3.76+11.7%
-----		
ELEC0358-001 06/01/1998		

MIDDLESEX COUNTY (Remainder)

	Rates	Fringes
Electrician.....	\$ 30.26	42.75%
-----		
ELEC0358-002 06/01/1998		

MIDDLESEX COUNTY (Remainder)

	Rates	Fringes
Line Construction:		
Cable Splicer.....	\$ 33.89	43%
Certified Welder Lineman....	\$ 31.77	43%
Groundman & Winch Operator..	\$ 29.47	43%
Linemen, Hole Digger Operator, Truck w/o Winch or Pole & Steel Hand, Truck w/o Winch, X-ray Technician & Equip. Repairer	\$ 30.26	43%
-----		
ELEC0456-001 05/31/2004		

MIDDLESEX COUNTY (Area South and West of a line extending East from the Raritan River along the Philadelphia and Reading Railroad to Shelton Rd, South on Shelton Rd to Lincoln Hwy to Vineyard Rd to Old Post Rd, along Old Post Rd to Mill Rd, along Mill Rd to the Raritan River, along the Raritan River to South River, along South River to the Southern boundary of the Borough of South River, along this boundary to Cranbury South River Turnpike, along this road continuing on to Washington Rd and Maplewood Ave in Cranbury to Scott Ave, along Scott Ave to Main St, on Main St and the turnpike to Millstone River)

	Rates	Fringes
Cable splicer.....	\$ 42.04	47%
Electrician.....	\$ 39.92	47%

-----  
ELEC0456-002 06/03/2002

MIDDLESEX COUNTY (Area South and West of a line extending East from the Raritan River along the Philadelphia and Reading Railroad to Shelton Rd, South on Shelton Rd to Lincoln Hwy to Vineyard Rd to Old Post Rd, along Old Post Rd to Mill Rd, along Mill Rd, along Mill Rd to the Raritan River, along Raritan River to South River, along South River to the Southern boundary of the Borough of South River, along this boundary to the Cranbury South River Turnpike, along this road continuing on to Washington Rd and Maplewood Ave in Cranbury to Scott Ave, along Scott Ave to Main St, on Main St and the turnpike to Millstone River)

	Rates	Fringes
Line Construction:		
Cable Splicer.....	\$ 38.95	45.75%
Groundmen.....	\$ 33.98	45.75%
Linemen.....	\$ 34.77	45.75%
Winch Operator.....	\$ 33.98	45.75%

-----  
ELEV0001-001 01/01/2004

	Rates	Fringes
Elevator Mechanic		
Construction.....	\$ 39.265	14.845+A+B+C
Modernization.....	\$ 31.43	14.695+A+B+C

FOOTNOTES:

A. PAID HOLIDAYS: New Year's Day, Lincoln's Birthday, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Columbus Day, Veteran's Day, Election Day, Thanksgiving Day, and Christmas Day

B. Employee with 6 months but less than 5 years of service receive 2 weeks vacation, and 3 weeks vacation for 5 years or more of service.

C. Employee with 6 months, but less than 5 years of service receive 2 weeks vacation, and 3 weeks vacation for 5 years or more of service.

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\* ENGI0825-004 07/01/2004

	Rates	Fringes
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## Power equipment operators:

GROUP 1.....	\$ 36.89	18.90+A+B
GROUP 2.....	\$ 36.98	18.90+A+B
GROUP 3.....	\$ 34.59	18.90+A+B
GROUP 4.....	\$ 32.03	18.90+A+B
GROUP 5.....	\$ 30.50	18.90+A+B
GROUP 6.....	\$ 28.74	18.90+A+B
GROUP 7.....	\$ 39.25	18.90+A+B

[STEEL ERECTION]:

## FOOTNOTES:

- A. PAID HOLIDAYS: New Year's Day, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, and Christmas Day.
- B. Employees receive 20% premium pay for hazardous waste work.

## POWER EQUIPMENT OPERATORS CLASSIFICATIONS

[STEEL ERECTION]

GROUP 1: Cranes - (all cranes, land or floating with booms including job 140 ft. and over, above ground); derricks-(all derricks, land or floating with boom including jib 140 ft. and over, above ground).

GROUP 2: Cranes - (all cranes, land or floating with booms including jib less than 140 ft. above ground); derricks (all derricks, land or floating with booms including jib, less than 140 ft. above ground).

GROUP 3: "A" frame; cherry pickers 10 tons and under; hoists; all types hoists shall also include steam, gas, diesel, electric, air hydraulic, single and double drum, concrete, brick shaft caisson, or any other similar type hoisting machines, portable or stationary, except Chicago boom type; jacks-screw air hydraulic power operated unit console type (not hand jack or pile load test type) side booms.

GROUP 4: Aerial platform used hoist; compressor, 2 or 3 in battery; elevators or house cars; conveyors and tugger hoists; fireman; forklift; generators, 2 or 3 maintenance-utility man; rod bending machine (power); welding machines--(gas or electric, 2 or 3 in battery, including diesels); captain power boats; tug master power boats.

GROUP 5: Compressor, single, welding machine, single, gas, electric converters of any type, diesel; welding system multiple (rectifier transformer type); generator, single.

GROUP 6: Oiler staddle carrier.

GROUP 7: Helicopter pilot

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\* ENGI0825-005 07/01/2004

	Rates	Fringes
Power equipment operators:		
GROUP 1.....	\$ 35.75	18.90+A+B
GROUP 2.....	\$ 35.10	18.90+A+B
GROUP 3.....	\$ 31.96	18.90+A+B
GROUP 4.....	\$ 30.56	18.90+A+B
GROUP 5.....	\$ 28.74	18.90+A+B
GROUP 6.....	\$ 37.68	18.90+A+B
OILOSTATIC MAINLINES & TRANSPORTATION PIPELINES:		

## FOOTNOTES:

- A. PAID HOLIDAYS: New Year's Day; Washington's Birthday, Memorial Day; Independence Day; Labor Day; Veteran's Day, Thanksgiving Day; and Christmas Day
- B. Employee receives 20% premium pay for hazardous waste work.

OILOSTATIC MAINLINES AND TRANSPORTATION PIPE  
LINES

## CLASSIFICATIONS

GROUP 1: Backhoe; cranes (all types); draglines; front-end loaders (5 yds. and over); gradalls; scooper (loader and shovel); koehring and trench machines.

GROUP 2: "A" frame; backhoe (combination hoe loader); boring and drilling machines; ditching machine, small; ditchwitch or similar type; fork lifts; front end loaders (2 yds and over but less than 5 yds.); graders, finish (fine); hydraulic cranes, 10 tons and under (over 10 tons - crane rate applies); side booms; and winch trucks (hoisting).

GROUP 3: Backfiller; brooms and sweepers; bulldozers; compressors (2 or 3 in battery); front-end loaders (under 2 yds.); generators; giraffe grinders; graders and motor patrols; mechanic; pipe bending machine (power); tractors; water and sprinkler trucks, welder and repair mechanic.

GROUP 4: Compressor (single); dope pots (mechanical with or without pump); dust collectors; farm tractors; pumps (4 in. suction and over); pumps (2 or less than 4 in. suction); pumps; diesel engine and hydraulic (immaterial or power); welding machines; gas or electric converters of any type, single; welding machines, gas or electric converters of any type, 2 or 3 in battery multiple welders; wellpoint systems (including installation and maintenance).

GROUP 5: Oiler, grease, gas, fuel and supply trucks and tire repair and maintenance.

GROUP 6: Helicopter-pilot.

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\* ENGI0825-009 07/01/2004

BUILDING CONSTRUCTION PROJECTS; HEAVY, HIGHWAY, ROAD, STREET  
AND SEWER PROJECTS:

	Rates	Fringes
Power Equipment Operator		
GROUP 1.....	\$ 35.12	18.90+A+B
GROUP 2.....	\$ 33.53	18.90+A+B
GROUP 3.....	\$ 31.62	18.90+A+B
GROUP 4.....	\$ 29.99	18.90+A+B
GROUP 5.....	\$ 28.28	18.90+A+B
GROUP 6.....	\$ 36.94	18.90+A+B

FOOTNOTES:

- A. New Year's Day; Memorial Day; Independence Day; Labor Day; Thanksgiving Day; Christmas Day, plus Washington's Birthday and Veterans Day.
- B. Employee receives 20% premium pay for hazardous waste work.

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Autograde - combination subgrader; base metal spreader and 7 base trimmer (CMI and similar types); autograde placer, trimmer, spreader combination (CMI and similar types); autograde slipform paver (CMI and similar types); backhoe; central power plants (all types); concrete paving machines; cranes (all types, including overhead and straddle travelling type); cranes; gantry; derricks (land or floating); drillmaster, quarrymaster (down the hole drill) rotary drill; self propelled hydraulic drill; self-powered drill; dragline; elevator graders; front end loaders (5 yds. and over); gradalls; grader; raygo; locomotive (large); mucking machines; pavement and concrete breaker, i.e.; superhammer and hoe ram; pile driver; length of boom including length of leads, shall determine premium rate applicable; roadway surface grinder; scooper (loader and shovel); shovels; tree chopper with boom; trench machines.

GROUP 2: "A" frames backhoe (combination); boom attachment on loaders (rate based on size of bucket) not applicable to pipehook, boring and drilling machines; brush chopper; shredder and tree shredder; tree shedder; cableways; carryalls; concrete pump; concrete pumping system; pumpcrete and similar types; conveyors, 125 ft. and over; drill doctor including dust collector, maintenance); front end loaders (2 yds. but less than 5 yds.); graders (finisher); groove cutting machine (ride on type); header planer; hoists; (all types hoists, shall also include steam, gas, diesel, electric, air hydraulic, single and double drum, concrete brick shaft caisson, snorkel roof, and/or any other similar type hoisting machines, portable or stationary, except Chicago boom type); hoists (Chicago boom type); hydraulic cranes, 10 tons and under; hydro-axle; jacks screw air hydraulic power operated unit or console type (not hand jack or pile load test type); log



skidder; pans; pavers (all concrete; pumpcrete machines; squeezecrete and concrete pumping (regardless of size); scrapers; side booms; straddle carrier; ross and similar types; winch truck (hoisting)).

GROUP 3: Asphalt curbing machine; asphalt plant engineer; asphalt spreader; autograder tube finisher and texturing machine (CMI and similar types); autograde curercrete machine (CMI and similar types); autograde curb trimmer and sidewalk; shoulder; slipform (CMI and similar types); bar bending machines (power); batchers; batching plant and crusher on site; belt conveyor systems; boom type skimmer machines, bridge deck finisher; bulldozers (all); car dumpers (railroad); compressor and blower type units (used independently or mounted on dual purposes trucks, on job site or in conjunction with job site, in loading and unloading of concrete, cement, fly ash, instancrete, or similar type materials); compressor (2 or 3) (battery); concrete finishing machines; concrete saws and cutters (ride on type); concrete spreaders; hetzel; rexomatic and similar types; concrete vibrators; conveyors; under 125 ft.; crushing machines; ditching machine; small (ditchwitch or similar type); dope pots (mechanical with or without pump); dumpsters elevators fireman; fork lifts (economobile; lull and similar types of equipment); front end loaders (1 yd. and over but less than 2 yds.); generators (2 or 3) in battery; giraffe grinders; graders and motor patrols; gunnite machines (excluding nozzle); hammer vibratory (in conjunction with generator); hoist (roof, tugger, aerial platform hoist and house cars); hoppers; Hopper doors (power operated); ladders (motorized); laddervator; locomotive; dinky type; maintenance; utility man; mechanics; mixers (except paving mixers); motor patrols and graders; pavement breakers, small; self-propelled ride on type (also maintaining compressor or hydraulic unit); pavement breaker; truck mounted; pipe bending machine (power); roller; black top; scales; power; seaman pulverizing mixer; shoulder widener; silos; skimmer machines (boom type); steel cutting machine; services and mantaning; tractors; tug captain; vibrating plants (used in conjunction with unloading); welder and repair mechanics, concrete cleaning/ decontamination machine operstor, directional boring machine, heavy equipment robotics operator/technician, master environmental maintenance technician, ultra high pressure waterjet cutting tool system operator/maintenance technician vacuum blasting machine operator/maintenance technician.

GROUP 4: Brooms and sweepers, chippers, compressor (single), concrete spreaders (small type), conveyor loaders (not including elevator graders), engines, large diesel (1620 H.P.) and staging pump, farm tractors; fertilizing equipment (operation and maintenance) fine grade machine (small type); form line graders (small type); front loader (under 1 yd.); generator (single); grease, gas, fuel and

oil supply trucks; heaters (nelson or other type including propane, natural gas or flow-type units); lights; portable generating light plants; mixers; concrete small; mulching equipment (operation and maintenance) pumps (4 inch suction and over including sumbersible pumps); pumps (2 or less than 4" suction and over including sumbersible pumps); pumps (diesel engine and hydraulic) immaterial of power road finishing machines (small type); rollers; grade; fill or stone base; seeding equipment (operation and maintenance of); sprinkler and water pump trucks steam jennies and biolers, stone spreader; tamping machines vibrating ride-on; temporary heating plany (nelson or other type, including propane, natural gas or flow type units); water and sprinkler trucks; welding machines (gas, diesel, and/or electric converters of any type, single; two or three in a battery); welding systems, multiple (rectifier transformer type); wellpoint systems.

GROUP 5: Oiler.

GROUP 6: Helicopter pilot.

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IRON0011-002 07/01/2002

BERGEN, ESSEX, HUDSON, HUNTERDON (Western half), MIDDLESEX (North half), MORRIS, PASSAIC, SOMERSET (North Half), SUSSEX AND UNION COUNTIES

	Rates	Fringes
Ironworkers:		
Reinforcing.....	\$ 27.63	24.10
Structural.....	\$ 29.53	24.10

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IRON0036-003 07/01/2003

	Rates	Fringes
Ironworkers; Structural,		
Reinforcing and Ornamental.....	\$ 29.95	14.02
Projects under \$25 million:		

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IRON0068-004 07/01/2003

HUNTERDON (Eastern half), MIDDLESEX (South half), AND SOMERSET (South half) COUNTIES

	Rates	Fringes
Ironworkers:		
Rerinforcing (Concrete Rods)	\$ 26.41	23.80
Structural, Ornamental.....	\$ 28.41	23.80

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LABO0021-001 05/01/2002

	Rates	Fringes
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Laborers Building Construction.\$ 22.95 11.77  
Class A Laborer

Class A Laborer: Jack Hammer, Tamper, Operator of Motorized tamper and compactor, operator of hydro demolition equipment, operator of all types of motorized forklifts, operator of motor buggy, operator of conveyor, operator of bobcat, demolition burners, nozzle operator on gunnite, scaffold builder, & mortar man (except silofed).

Class B Laborer: all laborers not listed in Class A or C

Class C Laborer: Laborers doing janitorial-type light clean-up work associated with the turnover of the project or part of a project to the owner.

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LABO0072-001 05/01/2002

MIDDLESEX COUNTY (Perth Amboy, Carteret, Woodbridge, Metuchen Twps, South River, Sayreville, South Amboy, Old Bridge, East Brunswick, Spotswood, Jamesburg, Helmetta, Cranbury & Monroe Twps)

	Rates	Fringes
Laborers Building Construction.\$ 22.95		11.77
Class A		

Class A-Jack Hammer, Motorized Tamper & Compactor, Street Cleaning Machines, Scaffold Builders, Hydro Demolition Equipment, all types of Motorized Fork Lifts, Riding Motor Buggy Operator, Bobcat Operator, Mortar Man, & Nozzle Man on Gunnite work.

CLASS B All Laborers not listed in Class A or C.

CLASS C Laborers doing Janitorial type light clean up work associated with the turnover of the project to the owner  
All Flagman, and those manning temporary heat of all types

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LABO0156-002 05/01/2002

MIDDLESEX (Remainder), and SOMERSET (East Millstone and Franklin Townships) COUNTIES:

	Rates	Fringes
Laborers:		
Group 1.....\$ 22.95		11.77
Group 2.....\$ 22.45		11.77
Group 3.....\$ 19.16		11.77

Group 1-Jack Hammers, Tampers, Motorized Tampers and Compactors, Street Cleaning Machines, Scaffold Builder, Hydro Demolition Equipment, all types of Motorized fork lifts riding Motor Buggy operator, Conveyor operator, Bobcat operator, Mortar Man, Burners, Nozzle man on

gunite work, Mortar Man shall include all laborers engaged in any mode of mixing aggregate by hand or mechanical means with the exception of silo work.

Group 2-Basic laborer's rate and includes all work not included in Group 1 or Group 3

Group 3-Laborers doing janitorial-type clean-up work associated with the turnover of the project or part of a project to the owner.

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LAB00232-001 05/01/2002

SOMERSET COUNTY (Bernardsville, Peapack, Gladstone, Far Hills, Bernards, and Bedminster Twps):

	Rates	Fringes
Laborers:		
Group 1.....	\$ 22.95	11.77
Group 2.....	\$ 22.45	11.77
Group 3.....	\$ 19.16	11.77

Group 1-Jack Hammers, Tampers, Motorized Tampers and Compactors, Street Cleaning Machines, Scaffold Builder, Hydro Demolition Equipment, all types of Motorized fork lifts riding Motor Buggy operator, Conveyor operator, Bobcat operator, Mortar Man, Burners, Nozzle man on gunite work, Mortar Man shall include all laborers engaged in any mode of mixing aggregate by hand or mechanical means with the exception of silo work.

Group 2-Basic laborer's rate and includes all work not included in Group 1 or Group 3

2.Group 3-Laborers doing janitorial-type clean-up work associated with the turnover of the project or part of a project to the owner.

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LAB00239-001 05/01/2002

PASSAIC COUNTY (Twps or Boroughs of Passaic, Garfield, Lodi, Wallington, Delawanna, Allwood, Athenia, Clifton to Piaget Ave, Paterson, Albion Place, Lettles Falls, Totowa, West Paterson, Wayne Hawthorne, Pompton, Haledon, West Milford, Ringwood, Bloomingdale, East Paterson to the Garfield boundary line)

	Rates	Fringes
Laborers Building Construction		
GROUP 1.....	\$ 22.95	11.77
GROUP 2.....	\$ 22.45	11.77
GROUP 3.....	\$ 19.16	11.77

GROUP 1-Specialist laborer classification including jack hammer, tamper, motorized tampers and compactors, street

cleaning machines, scaffold builder, hydro demolition equipment, all types of motorized fork lifts, riding motor buggy operator, conveyor operator, Bobcat operator, mortar man, burners, nozzle man on gunite work, Mortar man shall include all laborers engaged in any mode of mixing aggregate by hand or mechanical means with the exception of silo work.

GROUP 2-Basic laborer's rate and includes all work not included in GROUP 1 or GROUP 3.

GROUP 3-Laborers doing janitorial- type light clean-up work associated with the turnover of the project or part of a project to the owner.

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LAB00346-001 05/01/2002

BERGEN COUNTY (Cliffside; Borough of Cliffside Park; Borough of Fort Lee South of Central Blvd; Borough of Palisades Park South of Central Blvd; Borough of Ridgefield; Borough of Edgewater; Borough of FAirview; Hackensack; City of Hackensack; Hasbrouck Heights; Little Ferry; South Hackensack; Ridgefield Park; Bogota; Teaneck Twp. West of Teaneck Rd. and South of Fort Lee Rd.; Maywood; Saddle Brook Twp; Borough of Paramus East of Sprout Brook; Borough of River Edge; New Milford; Teterboro; Bendix; Tohell Park; Englewood; City of Englewood; Borough of Dumont; Borough of Bergenfield; Borough of Palisades Park North of Central Blvd. to Edgewater; Fort Lee to the Hudson River; Borough of Fort Lee North of Central Blvd.; Twp. of Teaneck, East of Teaneck Rd. and North of Fort Lee Rd.; Borough of Leonia; Borough of Englewood Cliffs; Borough of Tenafly; Borough of Cresskill; Borough of Demarest; Borough of Closter; Borough of Oradell; Borough of Montvale; Borough of Woodcliff Lake; Borough of Park Ridge; Borough of Hillsdale; Twp. of Washington; Borough of Westwood; Borough of Emerson; Borough of Haworth; Borough of Alpine; Borough of Rockleigh; Borough of Norwood; Borough of Harrington Park; Borough of Old Tappan; Borough of Northvale; Township of Rivervale; Lyndhurst; Rutherford; East Rutherford; Wood-Ridge; Carlton; Carlstadt; North Arlington; Moonachie; Ridgewood; Village of Ridgewood; Borough of Fair Lawn; Borough of Glen Rock; Borough of Hohokus; Borough of Saddle River; Borough of Upper Saddle River; Borough of Allendale; Borough of Ramsey; Borough of Waldwick; Borough of Midland Park; Borough of Oakland; Borough of Franklin Lakes; Twp. of Wyckoff; Twp. of Hohokus; Borough of Paramus except East of Sprout Brook; and Borough of Mahwah)

	Rates	Fringes
Laborers:		
Group 1.....	\$ 22.95	11.77
Group 2.....	\$ 22.45	11.77
Group 3.....	\$ 19.16	11.77

Group 1-Jack Hammers,Tampers,Motorized Tampers and  
Compactors,Street Cleaning Machines,Scaffold

Builder, Hydro Demolition Equipment, all types of Motorized fork lifts riding Motor Buggy operator, Conveyor operator, Bobcat operator, Mortar Man, Burners, Nozzle man on gunite work, Mortar Man shall include all laborers engaged in any mode of mixing aggregate by hand or mechanical means with the exception of silo work.

Group 2-Basic laborer's rate and includes all work not included in Group 1 or Group 3

2. Group 3-Laborers doing janitorial-type clean-up work associated with the turnover of the project or part of a project to the owner.

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LABO0394-001 05/01/2002

UNION COUNTY:

	Rates	Fringes
BUILDING CONSTRUCTION		
GROUP 1.....	\$ 22.95	11.77
GROUP 2.....	\$ 22.45	11.77
GROUP 3.....	\$ 19.16	11.77

LABORERS:

GROUP 1-Specialist laborer classification including jack hammer, tamper, motorized tampers and compactors, street cleaning machines, scaffold builder, hydro demolition equipment, all types of motorized fork lifts, riding motor buggy operator, conveyor operator, Bobcat operator, mortar man, burners, nozzle men on gunite work. Mortar men shall include all laborers engaged in any mode of mixing aggregate by hand or mechanical means with the exception of silo fed.

GROUP 2-Basic laborer's rate and includes all work not included in GROUP 1 or GROUP 3.

GROUP 3-Laborers are laborers doing, janitorial-type light clean-up work associated with the turnover of the project or part of a project to the owner, and all flagman, watchman, firewatch personnel, and those manning temporary heat of all types.

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LABO0472-002 03/01/2002

	Rates	Fringes
Laborers: (FREE AIR TUNNEL)		
GROUP 1.....	\$ 27.25	12.95+A
GROUP 2.....	\$ 23.85	12.95+A
GROUP 3.....	\$ 23.70	12.95+A
GROUP 4.....	\$ 23.20	12.95+A

FOOTNOTE:

A. PAID HOLIDAYS: New Year's Day; Washington's Birthday, Memorial Day; Independence Day; Labor Day; Thanksgiving Day; Christmas Day; Presidential Election Day; and Veterans Day; provided the employee works on 3 days for the same Employer within a period of ten working days consisting of five working days before and five working days after the day upon which the holiday falls or is observed.

LABORERS CLASSIFICATIONS  
[FREE AIR TUNNEL]

GROUP 1: Blasters

GROUP 2: Skilled men (including miners; drill runners; iron men mainrenance men; conveyor men; safety miners; riggers; block layers; cement finishers; rodmen; caulkers; powder Ccarrier; all other skilled men)

GROUP 3: Semi-skilled men (including chuck tenders; trackmen; nippers; brakemen; derail men; cable men; hose men; grout men; gravel men; form men; bell or signal men (top or bottom); form workers and movers; concrete workers; shaft men; tunnel laborers; all other semi-skilled men)

GROUP 4: All other top laborers

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LABO0472-003 03/01/2003

	Rates	Fringes
Laborers:		
GROUP 1.....	\$ 25.30	11.80+A
GROUP 2.....	\$ 25.50	11.80+A
GROUP 3.....	\$ 25.80	11.80+A
GROUP 4.....	\$ 26.00	11.80+A
GROUP 5.....	\$ 26.25	11.80+A
GROUP 6.....	\$ 29.80	11.80+A
GROUP 7a.....	\$ 28.30	11.80+A
GROUP 7b.....	\$ 26.30	11.80+A
HEAVY AND HIGHWAY CONSTRUCTION		

FOOTNOTE:

A. PAID HOLIDAYS: New Year's Day; Washington's Birthday; Memorial Day; Independence Day; Labor Day; Thanksgiving Day; Christmas Day; Presidential Election Day; and Veteran's Day; provided the employee works on 3 days for the same Employer within a period of ten working days consisting of five working days before and five working days after the day upon which the holiday falls or is observed.

LABORERS CLASSIFICATIONS HEAVY & HIGHWAY

GROUP 1: Common laborers; landscape laborers; railroad track laborers; pitmen and dumpmen; waterproofing; rakers and tampers on cold patch work and wrapping and coating all

pipe Asphalt Laborers:

GROUP 2: Powder carriers and magazine tenders; signalmen  
Asphalt Raker, & Asphalt Screedman

GROUP 3: Sewer pipe; laser men; conduit and duct line layers;  
jackhammer; chipping hammers; pavement breakers; power  
buggies; concrete cutters, asphalt cutters; sheet hammer  
and tree cutter operators; sandblasting, cutting, burning,  
Power Tool Operator, and such other power tools used to  
perform work usually done manually by laborers

GROUP 4: Wagon drill operator; timberman; drill master

GROUP 5: Finisher; form setter; rammer; paver; gunite nozzle  
man and stone cutter; Catch Basin or Inlet Builder Manhole

GROUP 6: Blaster

GROUP 7a: Hazardous waste laborer required to wear level A,B,  
or C personal protection.

GROUP 7b: Certified laborer working a hazardous waste removal  
project or site at a task requiring hazardous waste related  
certification, but who is not working in a zone requiring  
level A.B. or C personal protection.

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LABO0502-001 05/01/2002

ESSEX COUNTY (City of East Orange, Twps of South Orange and  
Maplewood, Cities of Orange and West Orange):

	Rates	Fringes
Laborers:		
Group 1.....	\$ 22.95	11.77
Group 2.....	\$ 22.45	11.77
Group 3.....	\$ 19.16	11.77

Group 1-Jack Hammers,Tampers,Motorized Tampers and  
Compactors,Street Cleaning Machines,Scaffold  
Builder,Hydro Demolition Equipment, all types of  
Motorized fork lifts riding Motor Buggy operator,Conveyor  
operator, Bobcat operator,Mortar Man,Burners, Nozzle man on  
gunite work, Mortar Man shall include all laborers engaged  
in any mode of mixing aggregate by hand or mechanical  
means with the exception of silo work.

Group 2-Basic laborer's rate and includes all work not  
included in Group 1 or Group 3

2.Group 3-Laborers doing janitorial-type clean-up work  
associated with the turnover of the project or part of a  
project to the owner.

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LABO0526-001 05/01/2002



## MORRIS COUNTY (Remainder):

	Rates	Fringes
Laborers:		
Group 1.....	\$ 22.95	11.77
Group 2.....	\$ 22.45	11.77
Group 3.....	\$ 19.16	11.77

Group 1-Jack Hammers,Tampers,Motorized Tampers and Compactors,Street Cleaning Machines,Scaffold Builder,Hydro Demolition Equipment, all types of Motorized fork lifts riding Motor Buggy operator,Conveyor operator, Bobcat operator,Mortar Man,Burners, Nozzle man on gunite work, Mortar Man shall include all laborers engaged in any mode of mixing aggregate by hand or mechanical means with the exception of silo work.

Group 2-Basic laborer's rate and includes all work not included in Group 1 or Group 3

2.Group 3-Laborers doing janitorial-type clean-up work associated with the turnover of the project or part of a project to the owner.

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LABO0569-001 05/01/2002

## HUNTERDON AND WARREN COUNTIES:

	Rates	Fringes
Laborers Building Construction.	\$ 22.95	11.77
CLASS A		

## DEFINATION OF LABORERS:

CLASS A-Jack Hammer, Tamper, Motorized Tampers and Compactors, Street Cleaning Machines, Scaffold Builder, Hydro Demolition Equipment, All types of Motorized Fork Lifts, Riding Motor Buggy Operator, Bobcat Operator, Mortar Man, Burners, Nozzle Man on Gunite work.

CLASS B-All Laborers not listed in Class A or C.

CLASS C-Laborers doing Janitorial- type light clean up work associated with the turnover of the project to the owner All Flagman, and those manning temporary heat of all types.

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LABO0694-001 05/01/2002

## ESSEX COUNTY (Montclair):

	Rates	Fringes
Laborers:		
Group 1.....	\$ 22.95	11.77
Group 2.....	\$ 22.45	11.77

Group 3.....\$ 19.16 11.77

Group 1-Jack Hammers,Tampers,Motorized Tampers and Compactors,Street Cleaning Machines,Scaffold Builder,Hydro Demolition Equipment, all types of Motorized fork lifts riding Motor Buggy operator,Conveyor operator, Bobcat operator,Mortar Man,Burners, Nozzle man on gunite work, Mortar Man shall include all laborers engaged in any mode of mixing aggregate by hand or mechanical means with the exception of silo work.

Group 2-Basic laborer's rate and includes all work not included in Group 1 or Group 3

2.Group 3-Laborers doing janitorial-type clean-up work associated with the turnover of the project or part of a project to the owner.

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LABO0711-001 05/01/2002

MORRIS COUNTY (Morristown, Morris Twp., Morris Plains,Mendham, Ralston, Chester, Brookside, Flanders, Ironia, Mount Freedom, Mount Tabor, Parsippany, Troy Hills, Pine Brook,Ced Knolls, Whippany, Hanover Twp. and Long Valley):

	Rates	Fringes
Laborers:		
Group 1.....\$ 22.95		11.77
Group 2.....\$ 22.45		11.77
Group 3.....\$ 19.16		11.77

Group 1-Jack Hammers,Tampers,Motorized Tampers and Compactors,Street Cleaning Machines,Scaffold Builder,Hydro Demolition Equipment, all types of Motorized fork lifts riding Motor Buggy operator,Conveyor operator, Bobcat operator,Mortar Man,Burners, Nozzle man on gunite work, Mortar Man shall include all laborers engaged in any mode of mixing aggregate by hand or mechanical means with the exception of silo work.

Group 2-Basic laborer's rate and includes all work not included in Group 1 or Group 3

2.Group 3-Laborers doing janitorial-type clean-up work associated with the turnover of the project or part of a project to the owner.

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LABO0779-002 05/01/2002

SOMERSET COUNTY (Bridgewater,Branchburg, Raritan, Bound Brook, Somerville, Manville, Hillsboro, Millstone, Montgomery and Rocky Hill Twp.):

	Rates	Fringes
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## Laborers:

Group 1.....	\$ 22.95	11.77
Group 2.....	\$ 22.45	11.77
Group 3.....	\$ 19.16	11.77

Group 1-Jack Hammers,Tampers,Motorized Tampers and Compactors,Street Cleaning Machines,Scaffold Builder,Hydro Demolition Equipment, all types of Motorized fork lifts riding Motor Buggy operator,Conveyor operator, Bobcat operator,Mortar Man,Burners, Nozzle man on gunite work, Mortar Man shall include all laborers engaged in any mode of mixing aggregate by hand or mechanical means with the exception of silo work.

Group 2-Basic laborer's rate and includes all work not included in Group 1 or Group 3

2.Group 3-Laborers doing janitorial-type clean-up work associated with the turnover of the project or part of a project to the owner.

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LAB00913-001 05/01/2002

MORRIS (Jefferson, Rockaway, Mount Arlington, Rockaway Borough, Wharton, Mine Hill, Dover, Netcong, Roxbury, Mount Oliver, Randolph, Boonton, Boonton Twp.,Montville, Lincoln Park Borough, Butler, Kinnelon Borough, Pin Brook, Towaco, Danville, Mountain Lakes, Pequannock, Pompton Plains, Riverdale Borough Twps) AND SUSSEX COUNTIES

	Rates	Fringes
Laborers Building Construction.	\$ 22.95	11.77
Class A Laborer:		

Class A Laborer:Jack Hammer,tamper, motorized tampers and compactors, street cleaning machines, scaffold builder, hydro demolition equipment, all types of motorized fork lifts, bobcat operator, riding motor buggy operator, conveyor operator mortar man (except silo feed operations), burners, & nozzle man on gunnite work.

Class B Laborer:All laborers not listed in Class A.

Class C Laborer:Laborers doing Janitorial type light clean up work, associated with the turnover of the project to the owner All Flagman, and those manning temporary heat of all types.

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LAB01030-001 04/01/2001

LABORERS: (The removal, abatement, enclosure and decontamination of personal protective equipment, chemical protective clothing and machinery relating to asbestos and/or toxic and hazardous waste of materials which shall include but not necessarily be limited to: the erection, moving, servicing

and dismantling to all enclosures, scaffolding, barricades, and the operation of all tools and equipment normally used in the removal or abatement of asbestos and toxic and hazardous waste or materials, the labeling, bagging, cartoning, crating, or other packaging of materials for disposal; and the clean up of the work site and all other work incidental to the removal, abatement, encapsulation, enclosure, and decontamination of asbestos or toxic and hazardous waste materials; and in addition, all work tasks involved in the maintenance and operation of energy resource recover plants (co- generation plants).)

	Rates	Fringes
Laborer.....	\$ 21.85	10.12
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LAB01153-001 05/01/2002		

	Rates	Fringes
Laborers:		
Group 1.....	\$ 22.95	11.77
Group 2.....	\$ 22.45	11.77
Group 3.....	\$ 19.16	11.77

Group 1-Jack Hammers,Tampers,Motorized Tampers and Compactors,Street Cleaning Machines,Scaffold Builder,Hydro Demolition Equipment, all types of Motorized fork lifts riding Motor Buggy operator,Conveyor operator, Bobcat operator,Mortar Man,Burners, Nozzle man on gunite work, Mortar Man shall include all laborers engaged in any mode of mixing aggregate by hand or mechanical means with the exception of silo work.

Group 2-Basic laborer's rate and includes all work not included in Group 1 or Group 3

2.Group 3-Laborers doing janitorial-type clean-up work associated with the turnover of the project or part of a project to the owner.

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PAIN0711-002 05/01/2000

	Rates	Fringes
Painters:		
NEW:		
Bridge.....	\$ 31.25	2.55+27%
Painters.....	\$ 28.75	2.55+27%
Paperhangers.....	\$ 28.75	2.55+27%
Spray,Sandblast,High Work..	\$ 31.25	2.55+27%
REPAINT:		
Painters.....	\$ 22.00	2.55+27%
Spray,sandblast,High Work..	\$ 24.00	2.55+27%

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PAIN0711-003 05/01/2000

	Rates	Fringes
Glazier.....	\$ 28.75	10.30
Glaziers- High Work.....	\$ 29.75	10.30

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PAIN0711-006 08/01/1999

	Rates	Fringes
Drywall Finisher/Taper.....	\$ 28.25	11.23

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\* PLAS0008-006 05/01/2004

HUNTERDON, MIDDLESEX, & SOMERSET COUNTIES:

	Rates	Fringes
Plasterer.....	\$ 28.35	15.80

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PLAS0029-001 05/01/2003

BERGEN, ESSEX, HUDSON, MORRIS, PASSAIC, SUSSEX, UNION & WARREN COUNTIES:

	Rates	Fringes
Cement Masons & Plasterers.....	\$ 31.00	12.50

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PLUM0009-001 03/01/2004

	Rates	Fringes
Air Conditioning & Refrigeration Mechanic.....	\$ 26.92	11.33+A

Installation of refrigeration equipment for any type of building where the combined compressor tonnage does not exceed 5 tons, Installation of water-cooled air conditioning that does not exceed 10 tons (includes the piping of compenent system and the erection of the water tower), Installation of air-cooled air conditioning that does not exceed 15 tons

FOOTNOTE: A. Paid Holidays: New Year's Day, Washington's Birthday, Memorial Day, Independence Labor Day, Thanksgiving Day, Christmas Day, plus Washington's Birthday and Veterans Day.

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PLUM0009-002 07/01/2003

HUNTERDON (Remainder), MERCER, MIDDLESEX (Excluding Dunellen, Borough, East Bound Brook, Middlesex, New Market, Oak Tree, Piscataway Twp and South Plainfield), AND SOMERSET (Remainder) COUNTIES

Rates	Fringes
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Plumbers and Pipefitters.....\$ 36.88	17.00
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 PLUM0014-002 11/01/2003

BERGEN, HUDSON (Bayonne, Guttenberg, Hoboken, Jersey City,  
 North Bergen, Secaucus, Union City, Weehawken, West New York),  
 MORRIS (From Mount Olive straight across Randolph down to the  
 Essex border), PASSAIC, SUSSEX, AND WARREN (Northern half)  
 COUNTIES

	Rates	Fringes
Plumber.....\$ 37.56		17.29

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 PLUM0024-001 05/01/2003

Essex:

HUDSON (East Newark,Harrison,& Kearney only);

HUNTERDON (Alexandria, Alexandria Twp., Alexauken, Allens  
 Corner, Allerton, Amsterdam, Annadale, Anthony, Baptistown,  
 Bellewood, Bethlehem, Twp., Bissell, Bloomsbury, Bunnvale,  
 Bottonwood Corners, Centerville, Charlestown, Cherryville,  
 Clinton, Clinton Twp., Cokebury, Coles Mills, Croton, Delaware  
 Twp., Dilts Corner East Amwell Twp., Everittstown, Fairmount,  
 Farmersville, Franklin Twp., Frenchtown, Glen Gardner, Grandin,  
 Hamden, Hampton, Higginsville, High Bridge, Hoffmans, Holland  
 Twp., Hughesville, Johnsons, Jutland, King, Kingwood Twp.,  
 Klinesville, Landsdowne, Lebanon, Lebanon Twp., Little Brook,  
 Little Neck, Little York, Ludlow, McPherson, Milford,  
 Moutainville, Mount Joy, Mount Pleasant, North Salem,  
 Muirshhead, New Germantown, New Hampton, Newport, Norton, Oak  
 Grove, Oldwick, Palmyra, Palmyra Corners, Pattenburg,  
 Perryville, Pittstown, Pleasant Run, Polktown, Potterstown,  
 Quakertown, Raritan Twp., Readington, Readington Twp.,  
 Reaville, Rileyville, Riverside, Rockafellows, Rowland Mills  
 Sidney, Snyderstown, Spring Mills, Stanton, Stanton Station  
 Sunnyside, Sutton, Tewksbury, Tewksbury Twp.,The Point, Three  
 Bridges, Treasure Island, Tumble, Union, Union Twp., Unionville  
 Van Syckle, Warren Paper Mills, Wertsville, West End, West  
 Portal White House, Whitehouse Station, Woodglen).

MIDDLESEX (Dunellen Borough, East Bound Brook, Middlesex, New  
 Market, Oak Tree, Piscataway Twp., & South Plainfield only).

MORRIS (Bartley, Berkshire Valley, Bertland Island, Brookside,  
 Chatham, Chatham Twp., Chester, Chester Twp., Cooks Bridge,  
 Crestmoore, Gillette, Harding Twp., Ironia, Logansville, Long  
 Valley, Malapardis, Mendham, Mendham Twp., Middle Valley,  
 Millington, Milltown, Milton, Mount Freesom, Mount Olive  
 Twp.,Mount Paul, Myerstown, Maughright, New Vernon, Parker,  
 Passaic Twp, Pleasant Grove, Ralston, Schooleys, Mount Stanley,  
 Stephensonburg, Stirling, & Washint Twp.)

SOMERSET (Amwell, Basking Ridge, Bedminster, Bedminster Twp., Bernards Twp., Bernardsville, Blaziers Corner, Bound Brook, Bradley Gardens, Branchburg Twp., Bridgewater Twp., Burnt Mill, Centerville, Chimney Rock, Claver Hill, Dutchtown, Far Hills Borough, FINDERNE, Flagstown, Frank Fort, Franklin Park, Franklin Twp., Gallia, Gladstone, Greater Cross Roads, Hamilton, Harmony, Harmony Colony, Higgins Mills, Hillsborough Twp., Lamington, Lanes Crossing, Liberty Corners, Lyons, Madisonville, Manville, Manville Borough, Martinsville, Mettler, Millstone, Mine Brook, Montgomery, Montgomery Twp., Mount Bethel, Mount Horeb, Neshanic, Neshanic Station, North Branch, North Branch Depot, North Plainfield, Peapack, Peapack-Gladstone, Plainville Plukemin, Pottersville, Raritan, Ravine Lake, Rock Mill, Round Top, Roycefield, Royce Valley, Seeley Mills, Smalleytown, Somerset, Somerville, Stone House, Sunset Lake, Union Village, Vlietown, Watchung, West Millington, Weston, White Bridge, Woodfern, Zarepat, & Zion).

## UNION &amp;

WARREN (Anderson, Asbury, Beattystown, Brainards, Brass Castle, Broadway, Buttzville, Carpetersville, Changewater, Cornish, Finesville, Foul Rift, Franklin Twp., Greenwich Twp., Harmony, Harmony Station, Harmony Twp., Haszen, Hope Twp., Hutchinson, Karrville, Kennedy, Lopatcong, Lopatcong Twp., Lower Harmony, Mansfield Twp., Montana, New Village, Oxford, Oxford Twp., Pequest, Pleasant Valley, Port Colden, Port Murray, Riegelsville, Rockport, Roxbury, Roxburgh, Springtown, Stewartsville, Still Valley, Vulcanite, Warren Glen, Washington, Washington Twp., White Top, & Phillipsburg Twp.)  
COUNTIES:

	Rates	Fringes
Plumber (Excludes Somerset-Bldg).....	\$ 37.28	16.45
-----		
PLUM0274-002 05/01/2004		

BERGEN, HUDSON, MORRIS (Remainder), PASSAIC, SUSSEX, AND WARREN (Remainder) COUNTIES

	Rates	Fringes
Pipefitter.....	\$ 38.93	18.07
-----		
PLUM0475-001 05/01/2004		

ESSEX; HUNTERDON (Alexandria, Alexandria Twp, Alexauken, Allens Corner, Allertown, Amsterdam, Annandale, Anthony, Baptistown, Bellewood, Bethlehem Twp, Bissell, Bloomsbury, Bunnvale, Buttonwood Corners, Centerville, Charlestown, Cherryville, Clinton, Cokebury, Coles Mills, Croton, Delaware Twp, Dilts Corner, East Amwell Twp, Evittstown, Fairmount, Farmersville, Franklin Twp, Frenchtown, Glen Gardner, Grandin, Hamden, Hampton, Higginsville, High Bridge, Hoffmans, Holland Twp,

Hughesville, Johnsons, Jutland, King, Kingwood Twp,  
 Klinesville, Landsdowne, Lebanon, Lebanon Twp, Little Brooke,  
 Little Neck, Little York, Ludlow, McPherson, Milford,  
 Mountainville, Mount Joy, Mount Pleasant, Mount Salem,  
 Muirshhead, New Germantown, New Hampton, Newport, Norton, Oak  
 Grove, Oldwick, Palmyra, Palmyra Corners, Pattenburg,  
 Perryville, Pittstown, Pleasant Run, Polktown, Potterstown,  
 Quakertown, Raritan Twp, Readington Twp); AND WARREN  
 (Phillipsburg Twp) COUNTIES

	Rates	Fringes
Pipefitter.....	\$ 36.91	21.04
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ROOF0004-002 06/01/2002		

ESSEX; HUDSON (West of the Hackensack River); MIDDLESEX  
 (Remainder); MORRIS; SOMERSET (Remainder) SUSSEX; UNION; AND  
 WARREN COUNTIES

	Rates	Fringes
Roofers:		
Roofer, Composition, Damp		
& Waterproofing, Slate & Tile	\$ 29.57	12.75
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ROOF0004-003 11/27/1994		

HUNTERDON COUNTY:

	Rates	Fringes
Roofers:		
Shingle, slate and tile.....	\$ 14.25	3.02
All other work.....	\$ 21.95	6.53 + A

FOOTNOTE:

A. Employer contribution of \$509.60 per month per employee  
 to Health and Welfare Funds.

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 ROOF0008-004 07/01/2002

HUDSON COUNTY (Remainder)

	Rates	Fringes
Roofers:		
Roofers, Composition, Damp		
and Waterproofing.....	\$ 30.08	18.78
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ROOF0010-001 06/01/2004		

BERGEN AND PASSAIC COUNTIES

Rates	Fringes
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Roofer, Composition.....\$ 29.65	13.45
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SFNJ0669-001 04/01/2004

HUNTERDON; MIDDLESEX (Remainder); AND WARREN COUNTIES

	Rates	Fringes
Sprinkler Fitter.....\$ 35.55		6.15

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SFNJ0696-001 07/01/2002

BERGEN, ESSEX, HUDSON, MIDDLESEX (New Brunswick, Milltown, Old Bridge, Browntown and North thereof), MORRIS, PASSAIC, SOMERSET (Bernardsville, Basking Ridge, Mine Brook, Far Hills, Lyons, Mount Bethel, Watchung, North Plainfield Martinville and Somerville), AND UNION COUNTIES

	Rates	Fringes
Sprinkler Fitter.....\$ 38.70		10.50

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SHHE0019-014 06/01/2003

WARREN COUNTY:

	Rates	Fringes
Sheet metal worker.....\$ 24.57		17.09

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SHHE0025-001 06/01/2000

BERGEN, ESSEX, HUDSON, MORRIS, PASSAIC, SOMERSET, SUSSEX, & UNION COUNTIES

	Rates	Fringes
Sheet metal worker.....\$ 26.92		16.12

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SHHE0027-001 01/01/2004

HUNTERDON & MIDDLESEX COUNTIES:

	Rates	Fringes
Sheet metal worker.....\$ 34.20		21.10

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TEAM0408-001 05/01/1997

ESSEX, MORRIS, AND UNION (Remainder) COUNTIES

	Rates	Fringes
Truck drivers:		
GROUP 1.....\$ 24.45		7.01+A
GROUP 2.....\$ 24.50		7.01+A

GROUP 3.....	\$ 24.60	7.01+A
GROUP 4.....	\$ 24.70	7.01+A

## FOOTNOTE:

A. Premium pay for hazardous waste removal: additional \$3.00 per hour if suite-up, otherwise \$1.00 per hour additional.

Paid Holidays: New Year's Day, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Veteran's Day, Election Day, Thanksgiving Day, and Christmas Day, provided the employee has been assigned to work or "shifts" one day of the calendar week during which the holiday falls.

Employer contribution of \$663.57 per month per employee to Health & Welfare Funds.

## TRUCK DRIVERS CLASSIFICATIONS

GROUP 1: Drivers on the following type vehicles: Straight dumps, flats, floats, pickups, container haulers, fuel, water sprinkler, road oil, stringer, bead, hot pass, bus dumpcrete, transit mixers, agitator mixer, half truck, witch truck, side-o-matic, dynamite, powder, x-ray, welding, skid, jeep, station wagon, stringer, a-frame, all dual purpose trucks, trucks with mechanical tailgates, asphalt distributor, batch trucks, seeding, mulching, fertilizer, air compressor trucks (in transit), parts chaser, escort, scissor, hi-lift, telescope, concrete breaker, gin pole, stone, sand, asphalt distributor and spreader, nipper, fuel trucks (drivers on fuel trucks including handling of hose and nozzle - entire unit), team drivers, vacuum or vac-all trucks (entire unit), skid truck (debris container - entire unit), concrete mobile trucks (entire unit), expediter (parts chaser), beltcrete trucks, pumpcrete trucks, line truck, reel truck, wreckers, utility trucks, tack trucks, warehousemen, warehouse parts-men, yardmen, lift truck in warehouse, warehouse clerk, parts man, material checker, receivers, shippers, binning men (materials), cardex man, drivers on the following type vehicles: broyhill coal tar epoxy trucks, little ford bituminous distributor, slurry seal truck or vehicle, thiokol track master pickup (swamp cat pickup); bucket loader dump truck and any rubber-tired tractor used in pulling and towing farm wagons and trailers of any description, similar type vehicles, off-site and on-site repair shop

GROUP 2: Drivers on straight 3-axle materials: trucks and floats

GROUP 3: Drivers on all euclid type vehicles: euclids, international harvestors, wabcos, caterpillar, koehring, tractors and wagons, dumpsters, straight, bottom, rear and side dumps, carry-alls and scrapers (not self-loading, loading over the top); water sprinkler trailers; water pulls and similar types of vehicles; drivers on tractors and trailer type vehicles: flat, floats, I-beams, low beds,

water sprinkler, bituminous transit mix, road oil, fuel, bottom dump hopper, rear dump, office, shanty, epoxy, asphalt, agitator mixer, mulching, stringer, seeding, fertilizing pole, spread, bituminous distributor, water pulls (entire unit) (tractor trailer), reel trailer, and similar types of vehicles

#### GROUP 4: Winch trailer drivers

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TEAM0469-001 05/01/2000

HUNTERDON, MIDDLESEX, SOMERSET, UNION (up to Wood Avenue South of Cranford), AND WARREN COUNTIES

	Rates	Fringes
Truck drivers:		
GROUP 1.....	\$ 26.35	11.835+A
GROUP 2.....	\$ 26.40	11.835+A
GROUP 3.....	\$ 26.50	11.835+A
GROUP 4.....	\$ 26.60	11.835+A

#### FOOTNOTE:

A. PAID HOLIDAYS: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Christmas Day, plus Washington's Birthday, Election Day and Veteran's Day, provided that the employee has been assigned to work or "SHIFTS" one day of the calendar week during which the holiday falls.

\$400.00 per year to Apprenticeship Training Fund.

\$3.00 per hour premium pay for hazardous waste work.

#### TRUCK DRIVERS CLASSIFICATIONS

GROUP 1: Drivers on the following type vehicles: straight dumps, flats, floats, pickups, container haulers, fuel, water sprinkler, road oil, stringer, bead, hot pass, bus dumpcrete, transit mixers, agitator mixer, half truck, winch truck, side-o-matic, dynamite, powder, x-ray, welding, skid, jeep, station wagon, stringer, A-frame, all dual purpose trucks, trucks with mechanical tailgates, asphalt distributor, batch trucks, seeding, mulching, fertilizer, air compressor trucks (in transit), parts chaser, escort, scissor, hi-lift, telescope, concrete breaker, gin pole, stone, sand, asphalt distributor and spreader, nipper, fuel trucks (drivers on fuel trucks including handling of hose and nozzle - entire unit), team drivers, vacuum or vac-all trucks (entire unit), skid truck (debris contained - entire unit), concrete mobile trucks (entire unit), expeditor (parts chaser), beltcrete trucks, pumpcrete trucks, line truck, reel truck, wreckers, utility trucks, tack trucks, warehousemen, warehouse parts-men, yardmen, lift truck in warehouse, drivers on the following type vehicles: Broyhill coal tar epoxy trucks, little ford bituminous distributor, slurry seal truck or vehicle, thiokol track master pickup (swamp cat pickup); bucket

loader dump truck and any rubber-tired tractor used in pullind and towing farm wagons and trailers of any description, similar type vehicles, off-site and on-site repair shop

GROUP 2: Drivers on straight 3-axle materials: trucks and floats

GROUP 3: Drivers on all euclid type vehicles: euclids, international harvesters, wabcos, caterpillar, koehring, tractors and wagons, dumpsters, straight, bottom, rear and side dumps, carry-alls and scrapers (not self-loading, loading over the top); water sprinkler trailers; water pulls and similar types of vehicles; drivers on tractors and trailer type vehicles: flat, floats, I-beams, low beds, water sprinkler, bituminous transit mix, road oil, fuel, bottom dump hopper, rear dump, office, shanty, epoxy, asphalt, agitator mixer, mulching, stringer, seeding, fertilizing pole, spread, bituminous distributor, water pulls (entire unit) (tractor trailer), reel trailer, and similar types of vehciles

GROUP 4: Winch trailer drivers

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TEAM0560-001 05/01/1997

BERGEN, HUDSON AND PASSAIC COUNTIES

	Rates	Fringes
Truck drivers:		
GROUP 1.....	\$ 24.45	8.08+A
GROUP 2.....	\$ 24.50	8.08+A
GROUP 3.....	\$ 24.60	8.08+A
GROUP 4.....	\$ 24.70	8.08+A

FOOTNOTE:

A. PAID HOLIDAYS:New Year's Day, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Presidential Election Day, Veteran's Day, Thanksgiving Day, Christmas Day.\$3.00 per hour premium pay for hazardous work.

TRUCK DRIVERS CLASSIFICATIONS

GROUP 1: Drivers on the following type vehicles: straight dumps, flats, floats, pickups, container haluers, fuel, water sprinkler, road oil, stringer, bead, hot pass, bus dumpcrete, transit mixers, agitator mixer, half truck, winch truck, side-o-matic, dynamite, powder, x-ray, welding, skid, jeep, station wagon, stringer, A-frame, all dual purpose trucks, trucks with mechanical tailgates, asphalt distributor, batch trucks, seeding, mulching, fertilizer, air compressor trucks (in transit), parts chaser, escort, scissor, hi-lift, telescope, concrete breaker, gin pole, stone, sand, asphalt distributor and spreader, nipper, fuel trucks (drivers on fuel trucks

including handling of hose and nozzle - entire unit), team drivers, vacuum or vac-all trucks (entire unit), skid truck (debris container - entire unit), concrete mobile trucks (entire unit), expediter (parts chaser), beltcrete trucks, pumpcrete trucks, line truck, reel truck, wreckers, utility trucks, tack trucks, warehousemen, warehouse parts-men, yardmen, lift truck in warehouse, warehouse clerk, parts man, material checker, receivers, shippers, binning men (materials), cardex man, drivers on the following type vehicles: broyhill coal tar epoxy trucks, little ford bituminous distributor, slurry seal truck or vehicle, thiokol track master pickup (swamp cat pickup); bucket loader truck and any rubber- tired tractor used in pulling and towing farm wagons and trailers of any description, similar type vehicles, off-site and on-site repair shop

GROUP 2: Drivers on straight 3-axle materials: trucks and floats

GROUP 3: Drivers on all euclid type vehicles: euclids, international harvestors, wabcos, caterpillar, keohring, tractors and wagons, dumpsters, straight, bottom, rear and side dumps, carry-alls and scrapers (not self-loading, loading over the top); water sprinkler trailers; water pulls and similar types of vehicles; drivers on tractors and trailer type vehicles: flat, floats, I-beams, low beds, water sprinkler, bituminous transit mix, road oil, fuel, bottom dump hopper, rear dump, office, shanty, epoxy, asphalt, agitator mixer, mulching, stringer, seeding, fertilizing pole, spread, bituminous distributor, water pulls (entire unit) (tractor trailer), reel trailer, and similar types of vehicles

GROUP 4: Winch trailer drivers

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

In the listing above, the "SU" designation means that rates listed under the identifier do not reflect collectively bargained wage and fringe benefit rates. Other designations indicate unions whose rates have been determined to be prevailing.

1.) Has there been an initial decision in the matter? This can be:

- \* an existing published wage determination
- \* a survey underlying a wage determination
- \* a Wage and Hour Division letter setting forth a position on a wage determination matter
- \* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations  
Wage and Hour Division  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION

(End of Summary of Changes)

## SECTION 02462

### TAPERED STEEL PILES FOR A-FRAME ANCHORAGE

#### PART 1 GENERAL

##### 1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only.

##### AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

ASTM A 36/A 36M	(2003a) Carbon Structural Steel
ASTM A 572/A 572M	(2003a) High-Strength Low-Alloy Columbium-Vanadium Structural Steel
ASTM A 148/A 148M	(2003) Steel Castings, High Strength, for Structural Purposes
ASTM A 252	(1998; R 2002) Welded and Seamless Steel Pipe Piles
ASTM A 722/A 722M	(1998; R 2003) Uncoated High- Strength Steel Bar for Prestressing Concrete
ASTM D 1143	(1981; R 1994e1) Piles Under Static Axial Compressive Load
ASTM D 3689	(1990, R 1995) Individual Piles Under Static Axial Tensile Load
ASTM D 3966	(1990; R 1995) Piles Under Lateral Loads

##### AMERICAN WELDING SOCIETY (AWS)

AWS D1.1/D1.1M	(2002) Structural Welding Code - Steel
AWS D1.5M/D1.5	(2002) Bridge Welding Code

##### 1.2 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. The following shall be submitted in accordance with Section 01330 SUBMITTAL PROCEDURES:

SD-02 Shop Drawings



#### Pile Splices; G, DO

Submit detail drawings; with description of field splice procedures, of pile splices prior to fabrication. Submit a plan for positioning all field and shop splices.

#### Pile Placement; G, DO

Submit pile placement plan, including proposed procedure for placing concrete pile core, at least 30 days prior to delivery of piles to the job site. Submit details of jetting, predrilling or preaugaring operations, if required, to advance piles at least 30 days prior to delivery of piles to the job site. Submit the proposed sequence for driving all tapered steel piles, including a numbered pile location drawing indicating existing surface grade and tapered steel pile cut-off elevation.

#### Pile Driving Records; G, DO

Submit pile driving records daily.

#### SD-03 Product Data

#### Tapered Steel Piles; G, DO

Submit manufacturer's catalog cuts or similar documentation for Tapered Steel Piles.

#### Pile Driving Equipment; G, DO

Submit descriptions of pile driving equipment, including caps, leads, cap block cushions and guides at least 30 days prior to commencement of work.

#### Pile Driving Records; G, DO

Submit the proposed form for compiling pile driving records 30 days prior to commencement of work.

#### Delivery, Storage, and Handling; G, RO

Submit delivery, storage, and handling plans for piles at least 30 days prior to delivery of piles to the job site.

#### Pile Tests; G, DO

Submit pile load test plan at least 30 days prior to installing any test piles. Approval of the plan shall not relieve the Contractor of the responsibility for structural and operational adequacies of the testing system.

#### SD-06 Test Reports

#### Pile Driving Tests; G, DO

Submit pile driving test data within one (1) day after each test is completed.

Pile Driving Analyzer; G, DO

Submit pile driving analyzer data within one (1) day.

Pile Load Tests; G, DO

Submit four copies of the load test report for each pile tested within one (1) week after the load test is completed.

SD-07 Certificates

Tapered Steel Piles; G, DO

Submit certified mill test reports for Tapered Steel Piles.

Pile Driving License; G, RO, DO

Submit two copies of manufacturer's license or other documentation licensing contractor to drive Tapered Steel Piles

SD-08 Manufacturer's Instructions

Tapered Steel Piles; G, DO

Submit tapered steel pile manufacturer's instructions.

SD-13 Records

As-Built Drawings

Submit as-built drawings accurately showing the following: size, length and exact location of all piles driven, including abandoned piles; depth of preaugaring, if any; final pile tip and head elevations; details of A-Frame configurations; pile location plan signed and sealed by a licensed land surveyor including GPS locations of survey markers as indicated on the plans, showing horizontal and vertical alignment deviations and cut-offs, and will include pile heave survey and redrive data.

#### 1.4 DELIVERY, STORAGE, AND HANDLING

Delivery, storage, and handling of materials shall conform to the requirements specified herein and in Section 05055A METALWORK FABRICATION, MACHINE WORK, MISCELLANEOUS PROVISIONS. Plans for the delivery, storage, and handling of piles shall be developed and submitted in accordance with paragraph SUBMITTALS.

##### 1.4.1 Delivery and Storage

Tapered steel piles shall be stacked during delivery and storage so that each pile is maintained in a straight position and is supported every 10 feet or less along its length (ends inclusive) to prevent exceeding the maximum camber or sweep. Piles shall not be stacked more than 5 feet high. Delivery and storage of tapered steel piles shall be in a manner prescribed by the manufacturer.

##### 1.4.2 Handling

Piles shall be lifted using a cradle or multiple points pick-up to ensure that the maximum permissible camber or sweep is not exceeded due to insufficient support, except that a one-point pick-up may be used for lifting piles that are not extremely long into the driving leads. Point pick-up devices shall be of the type that clamp to both pile flanges at each pick-up point. Holes may be burned in the flanges or webs of piles above the cutoff length for lifting piles into the leads. Piles shall not be dragged across the ground. The Contractor shall inspect piles for excessive camber and sweep and for damages before transporting them from the storage area to the driving area and immediately prior to placement in the driving leads. Camber, curvature in the pile in the direction normal to the pile flanges, shall be measured with the pile flange base laying on a flat surface and shall be the distance between the flange base at the mid-length of the pile and the flat surface. Sweep, curvature in the pile in the direction parallel to the pile flanges, shall be measured with the pile flange tips laying on a flat surface and shall be the distance between the flange tips at the mid-length of the pile and the flat surface. Handling of tapered steel piles shall be in a manner that does not conflict with that prescribed by the manufacturer.

## PART 2 PRODUCTS

### 2.1 MATERIALS

Material orders, material lists and material shipping bills shall conform to the requirements of Section 05055A METALWORK FABRICATION, MACHINE WORK, MISCELLANEOUS PROVISIONS. Concrete shall conform to the requirements of Section 03301A CAST-IN-PLACE STRUCTURAL CONCRETE unless otherwise noted. Threaded reinforcing steel rods shall be ASTM A722 Grade 150 ksi and shall conform to the requirements of Section 02390 ANCHORS.

### DEFINITIONS

A-FRAME ANCHORAGE UNIT. An A-frame anchorage unit as defined for the purposes of this project, shall consist of a single compression pile, driven toward the Passaic River and two tension piles, driven opposite of the compression pile as shown on the drawings. The compression pile is situated between the two tension piles, effectively forming a tripod-type form.

#### 2.1.1 Steel

Steel for Tapered Steel Piles shall conform to ASTM A 572/A 572M Grade 50. Steel for cylindrical pipe sections shall conform to ASTM A252 Gr. 3, minimum yield strength of 45 ksi. Steel for pile points shall conform to ASTM A 148/A 148M.

#### 2.1.2 Tapered Steel Piles

Tapered Steel Piles shall be the Tapertube (TM) Pile (United States Patents Numbers US 6,309,143 B1 dated 30 October 2001 and US 6468,003 dated 22 October 2002 OR EQUAL.

Tapertube (TM) piles are manufactured by DFP Foundation Products, LLC PO Box 688 • Franklin Lakes, NJ 07417; 201-337-5748, Fax 201-337-9022. The point-of-contact regarding the manufacturing and licensing of pile driving contractors is Mr. John Dougherty.

Offerors may provide the item described as Tapertube (TM) as a BRAND NAME only OR EQUAL. Offerors providing OR EQUAL items must be able to demonstrate, if necessary, that the OR EQUAL product meets the minimum salient characteristics described below. OR EQUAL offerors shall provide its detailed brochure and other necessary data that fully describes the OR EQUAL item in order that the Government may make a determination of its suitability.

Tapered steel piles shall be hot-rolled 50 ksi steel tapered cylindrical piles fabricated from as specified in paragraph MATERIALS subparagraph STEEL.

The minimum allowable thickness of a tapered pile shell is 3/8". The minimum cross-sectional area of the butt of a compression pile is 15 in<sup>2</sup>. The minimum cross-sectional area of the butt of a tension pile is 20 in<sup>2</sup>. The minimum elastic section modulus of the butt of a compression pile is 50 in<sup>3</sup>. The minimum elastic section modulus of the butt of a tension pile is 84 in<sup>3</sup>.

Tapered Steel Piles shall be polygonal in section, having 12 equal sides joined by two or more longitudinal butt welds, and having a top and bottom diameter, length and minimum thickness as shown on the drawings. Lengths of piles shall be determined as specified in paragraph INSTALLATION, subparagraph LENGTHS OF PERMANENT PILES and paragraph PILE TESTS, subparagraph TEST PILES.

#### 2.1.3 Pile Splices

Materials for pile splices shall be cylindrical pipe sections of the diameter and minimum thickness as shown on the drawings. The sections shall be joined with by a 100% butt weld.

#### 2.1.4 Pile Points

A cast steel conical point shall be welded to the bottom of the tapered pile section and shall be provided on all tapered steel piles.

#### 2.1.5 Pile-to-Pile connections for A-Frame Anchorage

Connections and miscellaneous fabrications shall conform to details shown on the drawings.

#### 2.1.6 Concrete

Concrete shall be Class PP except that the concrete shall have a minimum compressive strength of 5000 psi and be as specified in Section 03301A CAST-IN-PLACE STRUCTURAL CONCRETE

### 2.2 FABRICATION

Fabrication shall conform to the requirements shown and as specified herein and in Section 05055A METALWORK FABRICATION, MACHINE WORK, AND MISCELLANEOUS PROVISIONS. Fabrication shall not be in conflict with the manner prescribed by the manufacturer.

#### 2.2.1 Pile Splices

Pile splices shall be fabricated as shown. The top of the tapered section shall be rounded so that the outside diameter will match the outside diameter of the pipe section to be jointed to the tapered steel pile. The sections shall be joined by a 100% butt weld. Splices shall develop 100 percent of the axial capacity of the shell section being spliced. After splicing, deviations in straightness in the undriven portion of pipe shall not exceed 3/8 inch in 40 feet. During welding, use an approved jig or alignment device to maintain the required straightness of pipe. Unless otherwise permitted based on field conditions and approved by the Contracting Officer's Representative, the number and location of splices shall be limited to no more than three splices per pile. Detail drawings of splices shall be submitted in accordance with paragraph 1.3 SUBMITTALS.

#### 2.2.2 Pile Points

Pile points shall be attached to piles as shown. The top of piles shall be ground sufficiently smooth to provide a good welding surface for structural-shape pile caps.

### PART 3 EXECUTION

#### 3.1 PILE DRIVING EQUIPMENT

Select the proposed pile driving equipment, including hammers and other required items, and submit complete descriptions of the proposed equipment in accordance with paragraph 1.3 SUBMITTALS. Final approval of the proposed equipment is subject to the satisfactory completion and approval of pile tests. Changes in the selected pile driving equipment will not be allowed after the equipment has been approved except as directed. No additional contract time will be allowed for Contractor proposed changes in the equipment.

##### 3.1.1 Pile Driving Hammers

Pile driving hammers shall be of the impact type. The hammer shall have a delivered energy suitable for the total weight of the pile, the character of subsurface material to be encountered, and the pile capacity to be developed.

##### 3.1.1.1 Impact Hammers

Impact hammers shall be steam, air, or diesel hammers of the single acting, double-acting, or differential acting type. The size or capacity of hammers shall be as recommended by the manufacturer for the pile mass weight and soil formation to be penetrated. Hammers shall be capable of and so demonstrated during the development of refusal criteria, hard driving in excess of 20 blows per inch. Boiler, compressor, or engine capacity shall be sufficient to operate hammers continuously at the full rated speed. Hammers shall have a gage to monitor hammer bounce chamber pressure for diesel hammers or pressure at the hammer for air and steam hammers. This gage shall be operational during the driving of piles and shall be mounted in an accessible location for monitoring by the Contractor and the Contracting Officer. The driving head shall be designed to properly fit the head of the pile to prevent damage to the top of the pile during driving. Cap block cushions shall be designed to prevent damage to the piles without absorbing an excessive amount of energy. In accordance with paragraph 1.3 SUBMITTALS, submit the following information for each impact hammer proposed:

- a. Make and model.
- b. Ram weight (pounds).
- c. Anvil weight (pounds).
- d. Rated stroke (inches).
- e. Rated energy range (foot-pounds).
- f. Rated speed (blows per minute).
- g. Steam or air pressure, hammer, and boiler or compressor (psi).
- h. Pile driving cap, make, and weight (pounds).
- i. Cushion block dimensions and material type.
- j. Power pack description.

#### 3.1.2 Pile Driving Leads

Hammers shall be supported and guided with rigid-frame, fixed extended leads. For driving battered piles, impact hammers shall be supported and guided with three-axis, fixed-extended leads capable of 1 H and 2-1/2 V fore and aft batter and 1 H on 6 V side batter, with 30 degree rotation each side of an axis running along the center line of rotation of the crane through the center line of the leads. Two intermediate supports for the pile in the leads shall be provided to reduce the unbraced length of the pile during driving and pulling.

#### 3.1.3 Pile Extractors

Pile extractors may be vibratory or impact pile driving hammers. Impact hammers are required for pulling piles not extractable with vibratory hammers.

### 3.2 INSTALLATION

#### 3.2.1 Lengths of Permanent Piles

The lengths of the piles shown are for estimating purposes only. The Contracting Officer will determine the actual lengths of piles required to be driven below cutoff elevation for the various locations in the work and will furnish the Contractor a quantities list indicating lengths and locations of all piles to be installed. These actual lengths will be determined from the results of the pile tests specified in paragraph PILE TESTS. The Contracting Officer will determine the number of overlength piles required to provide for variations in subsurface conditions. Where required bearing and uplift capacities are attainable with piles of lesser length than those specified, shorter piles may be used subject to prior written approval.

#### 3.2.2 Pile Driving Records

Develop a form for compiling pile driving records which must be approved. Complete and accurate records of the pile driving operations shall be compiled on the approved form and submitted in accordance with paragraph 1.3

SUBMITTALS. Driving records for each pile shall include date driven, pile identification number, pile dimensions, location, top elevation, tip elevation, batter alignment, description of hammer used, number of blows required for each foot of penetration throughout the entire length of the pile and for each inch of penetration in the last foot of penetration, total driving time in minutes and seconds, and any other pertinent information as required or requested such as unusual driving conditions, interruptions or delays during driving, damage to pile resulting from driving, heave in adjacent piles, and depth and description of voids formed adjacent to the pile. Additional data required to be recorded for impact hammers include the rate of hammer operation and the length of the bounce hose. Additional data required to be recorded for vibratory hammers include hammer power pack description, wattage horsepower applied to pile, and hammer operating frequency.

### 3.2.3 Pile Placement

A pile placement plan which shows the installation sequence and the methods proposed for controlling the location and alignment of piles shall be developed and submitted in accordance with paragraph 1.3 SUBMITTALS. Site preparation and removal of unsuitable material shall be completed in the area prior to the placement of piles for driving. Piles shall be placed accurately in the correct location and alignments, both laterally and longitudinally, and to the batter lines indicated. The Contractor shall establish a permanent base line to provide for inspection of pile placement by the Contracting Officer during pile driving operations. The base line shall be established prior to driving permanent piles and shall be maintained during the installation of the permanent piles. A final lateral deviation from the correct location at the cutoff elevation of not more than 3 inches will be permitted for battered piles. A final variation in alignment of not more than 1/4 inch per foot of longitudinal axis will be permitted. The correct relative position of all piles shall be maintained by the use of templates or by other approved means. Piles not located properly or exceeding the maximum limits for rotation, lateral deviation, or variation in alignment shall be pulled and redriven at as location directed at no additional cost to the Government.

### 3.2.4 Pile Penetration Criteria

The controlling depth of penetration and a refusal blow count (number of blows required to attain the final inch of penetration) for permanent piles will be determined by the Contracting Officer. The required depth of penetration will be established subsequent to the analysis of pile tests as specified in paragraph PILE TESTS.

### 3.2.5 Pile Driving

The Contracting Officer shall be notified 30 days prior to the date pile driving is to begin. Piles shall not be driven within 100 feet of concrete less than 7 days old. Permanent and test piles shall be driven with hammers of the same model and manufacturer, same energy and efficiency, and using the same driving system. Hammers shall be operated at all times at the speed and under the conditions recommended by the manufacturer. Where heave is anticipated, the sequence of installation shall be such that pile heave is minimized by starting pile driving at the center of the group and proceeding outward. Prior to driving and with the pile head seated in the hammer, each pile shall be checked to ensure that it has been aligned correctly. Once pile

driving has begun, conditions such as alignment and batter shall be kept constant. The alignment of battered piles shall be checked and monitored during driving with an accurate batter board level and surveying instrument. Each pile shall be driven continuously and without interruption until the required depth of penetration has been attained. Deviation from this procedure will be permitted only when driving is stopped by causes that reasonably could not have been anticipated. A pile that can not be driven to the required depth because of an obstruction, as indicated by a sudden unexplained change in blow count and drifting, shall be pulled and redriven or shall be cut off and abandoned, whichever is directed. After piles are driven, they shall be cutoff as required at the indicated cutoff elevation. Cutoff piles shall be assembled into the A-Frame anchorage as shown. Any voids around piles or abandoned holes for pulled piles shall be backfilled and densified to the same density as the surrounding soil.

#### 3.2.5.1 Splicing Piles

A pile that has not reached the required refusal blow count when the top has been driven to the top elevation shall be spliced as shown and driven to a sufficient depth to develop the required refusal blow count.

#### 3.2.5.2 Jetting

Jetting of piles will not be permitted for tension piles. Jetting shall be used to assist driving compression piles through strata that can not be penetrated practicably by use of the hammer alone when authorized. After the penetration of the strata requiring jetting has been accomplished, jetting shall be discontinued and the driving shall be resumed with the hammer alone. Jetted piles shall be seated by driving not less than 1 foot after jetting has been stopped.

#### 3.2.5.3 Heaved Piles

When driving piles in clusters or under conditions of relatively close spacing, observations shall be made to detect heave of adjacent piles. Heaved piles shall be backdriven to original depth of penetration or refusal blow count without additional cost to the Government.

#### 3.2.5.4 Pulled Piles

Piles damaged or impaired for use during driving shall be pulled and replaced with new piles, or shall be cut off and abandoned and new piles driven as directed without additional cost to the Government. The Contracting Officer may require that any pile be pulled for inspection. Piles pulled as directed and found to be in suitable condition shall be redriven at another location as directed. Piles pulled as directed and found to be damaged shall be replaced by new piles at the Contractor's expense.

#### 3.2.2.5 Placement of Concrete Core

a. All tapered steel piles shall be filled with concrete.

b. Three piles, a compression pile with two adjacent tension piles, as shown on the drawings, shall be considered a "cluster." Five consecutive clusters (i.e., five compression piles and ten tension piles) shall be considered a "group." Do not place concrete in piles for an individual group until all piles for that group have been driven and approved.



c. After all piles for a group have been driven, the Contractor shall inspect each pile by means of a light source lowered to the bottom of the pile. If eye contact with the light source is lost in any pile, that pile will be further tested by means of an inclinometer. Prior to placing concrete, the Contractor shall certify that pile is clear and dry. After the piles have been inspected and found satisfactory, concrete may be placed.

d. To prevent the introduction of material other than concrete from entering driven piles not immediately filled with concrete, each driven pile shall be covered with a manufacturer-approved temporary cap. Before concreting, each pile shall have water and any other materials removed to provide a clean, dry pile. The Contractor immediately prior to filling will reinspect all piles. The piles will be filled with concrete in one continuous operation by a method that will prevent the segregation of ingredients. The rate of concrete placement shall be adjusted to prevent void formation. Concreting operations shall permit the escape of air from the pile during filling.

### 3.3 FIELD TEST

Pile Tests - Pile driving tests and pile load tests shall be performed as specified. The Contracting Officer will develop the correlation between pile length and pile capacity during the pile driving tests and pile load tests for the selected pile driving system. Based on the correlations developed, the Contracting Officer will determine the pile length for the permanent piles. Changes in the approved pile driving system during or after completion of tests will not be allowed unless additional tests are performed as directed to establish the correlation between length and pile capacity for the proposed changed system. For changes in the approved pile driving system proposed by the Contractor, required additional pile driving tests and pile load tests shall be performed at the Contractor's expense and no additional contract time will be allowed. In accordance with paragraph SUBMITTALS, develop and submit a detailed pile load test plan which shall include drawings as appropriate and contain the following information:

- a. Method of reacting static test loads.
- b. Method of supporting reference beams.
- c. Method of attaching and supporting dial gages for measuring pile movements.
- d. Method of applying static test load to piles.
- e. Method of setup of secondary measurement system (surveyor's level, laser beam, etc.)
- f. Details of strain rod fabrication and installation.
- g. Details of loading frame and reaction systems design, including design computations and fabrication details.
- h. Calibration curves for the load cell and readout device.
- i. Details of inclinometer installation.

Approval of the plan shall not relieve the Contractor of the responsibility for structural and operational adequacies of the testing system.

### 3.3.1 Test Piles

Test piles shall be of the indicated lengths and shall be placed at the directed locations. Test piles shall be driven with the same equipment specified in paragraph PILE DRIVING EQUIPMENT and in the same manner specified in paragraph DRIVING for permanent piles. The driving record data shall be recorded for each test pile driven. A pile driving analyzer shall be provided and operated as specified by the manufacturer during the driving of each test pile.

### 3.3.2 Pile Driving Tests

Two pile driving tests shall be performed, one between Stations 37+50 and 40+00, and one between Stations 40+50 and 43+50 or as otherwise directed. The Contracting Officer will be present during each pile driving test. Pile driving tests shall be carried to completion without interruption. Any pile driving test not accomplished in accordance with this specification shall be redone at no additional cost to the Government. Each driving test pile shall be pulled within one (1) day after the completion of that pile driving test, damages documented, and stored at construction site. Pulled test piles shall be removed from the site when directed.

### 3.3.3 Pile Load Tests

Pile load tests shall be performed under the supervision of a registered professional engineer provided by the Contractor and experienced in conducting pile load tests. Loading frames and equipment for pile load tests shall be ready to be placed in operation as soon as a load test pile has been driven. The loading equipment shall be of sufficient capacity to apply the maximum load specified in a safe manner. Loading of each test pile shall be started when directed. The Contractor shall be responsible for the application of loads. The magnitude of applied loads shall be accurately determined and controlled using a calibrated load cell and readout device. The Contracting Officer, as confirmed by the results of load tests, will determine the design working load. Load test piles indicated or directed to be driven in permanent locations may be incorporated into the work if, after satisfactory completion of load test, they are approved for inclusion in the work. Any pile load test not accomplished in accordance with this specification will be rejected. A new pile load test shall be conducted for each rejected pile load test. The Contractor shall compile a report for each pile load test that shall include, as a minimum, all applicable information required by the specified test.

#### 3.3.3.1 Compressive Load Test

Perform 2 pile compressive load tests, one between Stations 37+50 and 40+00, and one between Stations 40+50 and 43+50 or as otherwise directed, in accordance with ASTM D 1143. A compressive load of 250 tons shall be applied to each compressive load test pile.

#### 3.3.3.2 Tensile Load Test

Perform 4 pile tensile load tests, two between Stations 37+50 and 40+00, and two between Stations 40+50 and 43+50 or as otherwise directed, in accordance

with ASTM D 3689. A tensile load of 100 tons shall be applied to each tensile load test pile.

#### 3.3.3.3 Lateral Load Test

Perform 2 pile lateral load tests, one between Stations 37+50 and 40+00, and one between Stations 40+50 and 43+50 or as otherwise directed, in accordance with ASTM D 3966. Lateral load tests shall consist of jacking two piles apart with a hydraulic jack, with one pile serving as the reaction pile for the other. A lateral load of 100 tons shall be applied to each pair of lateral load test piles. Required movement readings shall be made and recorded for each pile.

